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# NUMBERS & ODDITIES #
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-::: N&O #59, March 2003 :::-

Hi and welcome to Numbers & Oddities #59. Time is still my enemy and I thank those of you who were so kind to send me logs and info. Especially the corrections and additional info about the Russian Air Defense messages was most helpful. In case you are interested in Iraq's intelligence profile, please check N&O #9 from December 1998. This month I have a short item about the Libyans. Info is hard to find about these guys, so if you have more up-to-date material about the current situation of Libya's intelligence agencies, please let me know.

But first some numbers stuff:

* VOICE STATIONS *

::: E03 LINCOLSHIRE POACHER

Al's monthly report of LP's idents has inspired Tomonori to do the same for Cherry Ripe. First LP:

Lincolnshire Poacher E03
IDs as of March 1st, 2003

UTC	Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC
1200	01927	01927	01927	01927	01927	01927	01927	1200
1300	81946	81946	81946	81946	81946	81946	81946	1300
1400	78863	55565	95726	52976	01927	00698	58493	1400
1500	58493	78863	55565	95726	52976	01927	83516	1500
1600	83516	58493	78863	55565	95726	52976	00698	1600
1700	00698	83516	58493	78863	55565	95726	01927	1700
1800	01927	00698	83516	58493	78863	55565	52976	1800
1900	52976	81946	00698	81946	58493	78863	81946	1900
2000	81946	01927	81946	83516	81946	58493	95726	2000
2100	95726	52976	01927	00698	83516	81946	55565	2100
2200	55565	95726	52976	01927	00698	83516	78863	2200

Lincolnshire Poacher E03
IDs as of March 15th, 2003

UTC	Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	
1200	00405	00405	00405	00405	00405	00405	00405	00405	1200
1300	50411	50411	50411	50411	50411	50411	50411	50411	1300
1400	24232	53011	16213	44847	00405	93825	15037	1400	
1500	15037	24232	53011	16213	44847	00405	11449	1500	
1600	11449	15037	24232	53011	16213	44847	93825	1600	
1700	93825	11449	15037	24232	53011	16213	00405	1700	
1800	00405	93825	11449	15037	24232	53011	44847	1800	
1900	44847	50411	93825	50411	15037	24232	50411	1900	
2000	50411	00405	50411	11449	50411	15037	16213	2000	
2100	16213	44847	00405	93825	11449	50411	53011	2100	
2200	53011	16213	44847	00405	93825	11449	24232	2200	

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::: E04 CHERRY RIPE

Tomonori supplied the id's of Cherry Ripe as used throughout the month.
Thanks Tomonori san!

IDs as of March 1st, 2003

UTC	Sun	Mon	Tue	Wed	Thu	Fri	UTC
0000		09576	78478	06610	53045	41820	0000
0100		78478	06610	53045	41820	04556	0100
1000		06610	53045	41820	04556	77435	1000
1100		53045	41820	04556	77435	06610	1100
1200		41820	04556	77435	06610	09576	1200
1300		04556	77435	06610	09576	78478	1300
2200	77435	06610	09576	78478	06610		2200
2300	06610	09576	78478	06610	53045		2300

IDs as of March 14th, 2003

UTC	Sun	Mon	Tue	Wed	Thu	Fri	UTC
0000		09576	78478	06610	53045	41820	0000
0100		78478	06610	53045	41820	04556	0100
1000		06610	53045	41820	04556	77435	1000
1100		53045	41820	04556	77435	06610	1100
1200		41820	04556	77435	06610	09576	1200
1300		04556	77435	06610	09576	78478	1300
2200	77435	06610	09576	78478	06610		2200
2300	06610	09576	78478	06610	53045		2300

IDs as of March 21st, 2003

UTC	Sun	Mon	Tue	Wed	Thu	Fri	UTC
0000		05245	74154	18831	20365	49209	0000
0100		74154	18831	20365	49209	73116	0100
1000		18831	20365	49209	73116	23108	1000
1100		20365	49209	73116	23108	18831	1100
1200		49209	73116	23108	18831	05245	1200
1300		73116	XXXXX	18831	05245	74154	1300
2200	23108	18831	05245	74154	18831		2200
2300	18831	05245	74154	18831	20365		2300

IDs as of March 28th, 2003

UTC	Sun	Mon	Tue	Wed	Thu	Fri	UTC
0000		05245	74154	18831	20365	49209	0000
0100		74154	18831	20365	49209	73116	0100
1000		18831	20365	49209	73116	23108	1000
1100		20365	49209	73116	23108	18831	1100
1200		49209	73116	23108	18831	05245	1200
1300		73116	23108	18831	05245	74154	1300
2200	23108	18831	05245	74154	18831		2200
2300	18831	05245	74154	18831	20365		2300

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::: E06

Richard posted E06 and E07 logs to the ENIGMA list:

Russian Man on 8080 kHz at 2100 UTC (3 March). He says "Maybe it's a reflection of the Russian economy but this transmission kept breaking down and it took 3 attempts and 20 minutes to pass a 30 group message! Id '102' first group 29084, ended 958 30 00000"

More E06 reports reach us from Manolis on beautiful Crete. He copied the station on Saturday, 22 March at:

1242 UTC on 18235 kHz (just caught the end of transmission)
1400 UTC on 16141 kHz: 507 912 87 41661...
1500 UTC on 13940 kHz: 507 912 87 41661...

... and on Sunday, 23 March at:

1230 UTC on 18236 kHz: 791 238 91 42930...
1330 UTC on 16259 kHz: 791 238 91 42930...
1400 UTC on 16141 kHz: 507 912 87 41661...
1500 UTC on 13940 kHz: 507 912 87 41661...

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::: E07

E07 was heard on 3 March, 8185 kHz AM at 2120 UTC and 6817 kHz AM at 2140 UTC. "I missed the start", says Richard. The transmission ended with "67597 91585 000 000"

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::: E10

Although there is a lot of unrest in the area, there was no increased activity reported.

Richard copied "ABC" on 5222 kHz at 2129 UTC on 18 March. I still wonder if the "ABC" transmissions are tests of some sort.

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::: S06

The following S06b transcript was jotted down by Laurent.

10206 kHz, 2130 UTC, 19 March.

726 726 726 726 726 726 726 726 726 726
726 726 726 726 726 726 726 726 726 726
726 726 726 726 726 726 726 726 726 726
726 726 726 726 726 726 726 726 726 726

390 390
22
11111 11111
00041 00041
390 390
22
0 0 0 0 0

A complete recording is available from Laurent's website:
<http://membres.lycos.fr/stationdenombres/HTML/liste.htm>

Richard too heard S06. On 2 March he copied them on the following times and frequencies: 18235 kHz, 1230 UTC: "791" 325 68 06168 (68 groups) and on 16257 kHz at 1330 UTC, the same message was sent. The Russian Man was in the evening on 7900 kHz at 1800 UTC with 2 messages. Richard missed the start of first but caught the rest: "350 19 168 (repeated) then 937x2 24x2 72810 (24 groups)". Mistakes were made in transmission and the group was restarted after several 168s! Also at

1835 UTC on 8150 kHz. Ended with "154 83 00000"

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::: S28 BUZZER

RSV - Strategicheskoye Raketnoye Voysko
Strategic Missile Troops (SMT)

The Raketnoye Voysko Strategicheskogo Naznacheniya (RSVN) were the main Soviet attack forces. They operated all Soviet ground-based medium range and intercontinental nuclear missiles. RSVN was also responsible for the Soviet space vehicle launches. A major reorganization in 1997 resulted in a new strategic command; the Strategicheskoye Raketnoye Voysko -RSV- (Strategic Missile Troops), being the old RSVN, the Military Space Forces, and the Space Missile Defense Forces. The latter two were previously part of the Troops of Air Defense.

Several reorganizations took place between 1997 and 2002. One of the most important reorganizations is the one that started in 2001. The Space Missile Defence Troops and the Space Military Forces were removed from the Strategic Missile Troops and put under the direct control of the General Staff. The Strategic Missile Troops is now an independent combat arm under control of the president. They were a separate branch under the overall Ministry of Defense, on the same level as Navy, Air Force, Army, and the former PVO. This is similar to some of the Interior Ministry troops that answer to the president, but do not have the same level of influence or resources that a full fledged military branch would have.

The Strategic Missile Troops have a large number of intercontinental ballistic missiles (ICBMs), launch control centers, and missile bases. The number is still decreasing as a direct result of the Strategic Arms Reduction Treaty (START) that the USSR and the USA signed in 1991.

Three stations that reportedly belong to the RSV are the ones that we call "the buzzer", "the pip" and "R".

The "buzzer", callsign UZB-76, is located at 55 N 49'36"/36 E 47'18" (ca 40 km west of Moscow). It operates on one frequency: 4625 kHz. Its characteristic sound, the "buzz", is repeated between 21 and 24 times per minute. The audio tone of the oscillator sometimes instantaneously shifts, sounding like a dying fly. The station transmits orders, time code and operational data from the staff of the RSV in Moscow to ICBM launching platforms. UZB-76 is part of the Central Communications Hub of the RSV.

Statistics of recently intercepted voice messages(UTC):

0300-0400: 1 (0351)
0400-0500: 2 (0403, 0418)
0500-0600: 2 (0504, 0555)
0600-0700: 4 (0600, 0603, 0634, 0652)
0700-0800: 3 (0728, 0730, 0751)
0900-1000: 2 (0930, 0945)
1100-1200: 1 (1102)
1200-1300: 1 (1230)
1400-1500: 5 (1400, 1425, 1456, 1457, 1458)
1500-1600: 1 (1543)

So far nothing at other times.

The "pip", located in the Rostov-Volgograd area, transmits on a night and day frequency, respectively 3756 and 5448 kHz. It airs irregularly messages that are similar to the ones transmitted by the buzzer.

The third one is "R" in Izhevsk, which operates on 3195, 4325.8 and 5465.8 kHz. This station also sends voice messages on irregular times.

(Sources: FAS and other sources (RSV). Buzzer info via Jan Michalski)

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* MORSE STATIONS *

::: MX

A quick roundup of the reported cluster beacons:

"C" Moscow: 4558, 5154, 7039, 8495, 10872, 13528, 16332, 20048 kHz.

"F" Vladivostok: 7039.2, 8495.2 kHz

"K" Petropavlovsk Kamchatskiy: 7039.3 kHz

"M" Magadan: 5154.4, 7039.4 kHz

In addition to the above a couple of others were heard:

"F" Vladivostok: 7000 kHz

"R" Izhevsk: 3195, 4325.8, 5465.8 kHz.

"L" St.Petersburg: 3336.1 kHz

An interesting note reached me from Franta in Central Europe. He writes that he can hear beacons "L" and "M" on an almost daily basis but not from the usual locations.

"L" in St.Petersburg moved a bit and is now on 3336.1 with its typical chirpy sound. Franta sent me a recording of the "L" marker that he is hearing on 4069.6 kHz. It is different from the St.Petersburg marker; a clear and clean signal and..... it's coming from the south! So far the location is still a mystery. 4069.6 kHz is a daytime frequency. The nighttime frequency is yet unknown -if there is any.

Now for the second one; "M" in the frequency slot of Magadan, 16332.4 kHz, but louder than Magadan normally is and it looks like the signal is coming from the Arkhangelsk area. Hmmm, I wonder what this is.

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::: M13

John comments on a M13d transmission that he copied on 5876 kHz on Saturday 12 March at 0330 UTC: "303(R5) = 276 54 ="

In his own words: "I was on freq about 15 min before sked time and was getting lots of QRM from a broadcast station on 5875. I think it was Radio Moscow but I'll have to check into it. It was a European station though.

I heard M13 tuning up on 5876 at about 0324 with series of random dots & dashes. His signal was pretty good (S8-9) and I could notch out the broadcast station pretty well.

What I noticed and thought was very strange was, that at 0329 and about 30 sec, the broadcast station went off the air in the middle of the show, just like someone pulled the plug. There was no normal sign-off procedure like what freqs they were staying up on etc. The BC station was playing some rock music and the freq just went dead in the middle.....

This is the first time I've run into this and wondered if you had any idea if there may be a relation between M13 and the BC station. Any idea of where M13 originates???

Maybe the broadcast station is a marker for M13's outstation to zero beat and then the outstation just turns on the BFO when the broadcast station drops the carrier and bingo..... there's M13. A slick little procedure so the outstation doesn't miss any skeds by tuning around randomly???

Call me suspicious, but its just a thought. Maybe its just me..."

Thanks, John. Comments anyone???

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::: M18

M18 was active on 3803 kHz sending the time in UTC+3 (Moscow time).

Laurent logged a similar station but this one sends the time as UTC+8 on 4073 kHz. Could this be a sister station in the eastern part of Russia? The clock apparently needs new batteries as the time difference increased to UTC + 8 hours and 7 minutes on 14 March. The funny thing is that Laurent also heard transmissions of UTC+3 on 4073 kHz on 15 March. Maybe my new batteries joke isn't that bad. Maybe the device was malfunctioning after all. Logs are most welcome, folks!

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::: M21 PVO

The stations were heard on the following frequencies: 3314//4391, 4418, 5131, 5260.5, 5765, 6321.5 and 7994 kHz.

PVO update:

I published a profile of the Russian Protivo Vozdushnoy Oborony (PVO) in N&O #53. In that article I explained what the messages mean. Part of the info appears to be incorrect. Thanks to one of our members I can now give you a better explanation.

It concerns the part "Now the modern 15-character messages. The samples were all logged during the past year. The main difference is that they don't start with =00 anymore. Also missing is the code for "friend or foe". The codes for the tracking station (2 digits), track code (3 digits), grid (7 digits), and the time (2 digits, minutes only) are still there. The altitude also does not appear anymore in the morse version, but can still be heard on the voice channels."

So, how should it be read? As you can see in the following explanation, all the assumed missing information is still there.

The messages look like this when sent by the PVO stations:

=13209813134224
=13209813436625
=13641176513420
=23643901070030
=4320902245??29
=10117115618152
=4135113514????
=10478541048146
=20207501100908"

The following is how it should be logged:

= 1 3209 8131342 24

= 1 2641 1765134 20
= 2 3643 901 07 00 30
= 1 0117 1156181 52
= 4 1351 1351 4
= 1 0478 5410481 46
= 2 0207 501 10 09 08

The figures 1,2,4 etc are codes which reflect the info.

1 is tracking on the four fig track number: 1 3209 8131342 24.
2 is track amplification: 2 3634 901 07 00 30
901 = 1 aircraft of type/ident 9. (9 = Negative IFF)
07 is height 00 is speed (none reported at this time)
08 is bearing from radar station: 2 0207 501 10 09 08

Similarly 501 is 1 aircraft of type/ident 5 (5 = scheduled airliner)
10 is height. 09 is speed and 08 is bearing from radar station.
4 1351 1351 4 = Track dropped on track number 1351.

Idents:

71 (701) is practice traffic
41 (401) is friendly aircraft simulating hostile
21 (201) is positive IFF
31 (301) is border violator
81 (801) is hostile aircraft
51 (501) is scheduled airliner
61 (601) is special interest
91 (901) is negative IFF

On the older format 511 was speed and 510 was height.
190 was track lost. 192 was tracked dropped.

A final note re the grid figures (see the JPG file that accompanied
N&O #53). The "Major" part is always the first two figures of the grid.

Example: 00 1234 5678294 21 80 1645

56 is the Major
7 is the Minor
8 row
2 column
9 is a swiss roll effect within that box
4 is a further swiss roll effect within that specific box

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::: M21 VARIANTS

Fritz Nusser sent me a number of sample messages of M21 variants. As far as I know these messages are not Russian but originate from various ex-Warszaw Pact countries or ex-Soviet republics. Because of their common past, a number of countries in Central Europe are using systems similar to the Russian PVO system. The problem with the used format is the time. Only the minutes are part of the message, so you cannot see in what time zone they are.

Variant 1: 5210,5 kHz

9910449815600	9911249815800	9912249815800	9913249814700
9914249814600	9915249814800	9916249813600	9917249814400
9918249814300	9921249818300	9906249069300	9908249825956
9908249018856	9907241763356	9907241763958	9909249018358
9908249017258	9906249069958	9906249068400	9908249014102
9920245897802	9911245897802	9912245897802	9913249814502
9914249814502	9915249814402	9916249811802	9917245891802
9918245891902	9918245088900	9910245088900	9919245099702
9920245089802	9921249814702	9922249814702	9923249815202
9923249814602	9922249815102	9923249814602	9922249815104
9921249814704	9916249814104	9917249814304	9915245898004
9914245898904	9912245897404	9911245897404	9910245897404
9920245099904	9909249814304	9908249814104	

5125,5 kHz

9600248507517	9601248564617	9602875983617	96636000000
9606245875817	9607245063117	9600248565119	9600248569919
9602874592219	9603874596519	9604874519119	9605874518519
9606245865419	9607245064419	9600248564719	9600248564719
9602874687819	9603874095221	9606245867521	

Notes:

5210,5 kHz.	Callsign: YMG8.	Daily.
5125,5 kHz.	Callsign: ANSJ / KUQJ.	Daily.
4959//3301 kHz.	Callsign: PSNN.	Daily.

Sometimes QTCs and XXX msgs; no time stamps; time even or odd; no identifier; sometimes messages are preceded by a prefix.

The messages unraveled:

9908249814104

Preamble	Operator	Coordinates	Time
99	082	4981 41	04

Variant 2: 5366,5 kHz

8703242592424	8706242533124	8705241.95124	8706242862424
8708242846224	8709242042324	8710242899724	4871087104
8703242599226	4870387034	8704242523826	4870487044
870524258.826	8706242863726	8708242548826	8709242042926
8705242596728	4870587052	870824284.828	8705242042628
8708242897730	8709242046.30	4870987094	

Notes:

5366,5 kHz. Callsign: 4SCH. Heard on 6 February. Not copied since.
 Sometimes messages start with prefix "4"; no time stamps; time even;
 no QTCs heard so far.

The messages unraveled:

8703242599226 4870387034

Preamble	Station	Operator	Coordinates	Time
	87	032	4259 92	26
4	87	038	7034	

Variant 3: 7804.5 kHz, heard in December 1998

6861037295315	6862037.....	6863037287515	6864037381415
6865037392915511800	6866037391415	6861037267317	6862037294417
6863037287117	6864037381817510900	ar ar ar ar ar	

Variant 4: 7689 kHz, heard in December 1998

2861037..." etc

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::: M87

Igor reports M87 on 7940 kHz at 0000 UTC on March, 17.

684	684	684	684	684	684	684	684	684	000	000
684	684	684	684	684	684	684	684	684	684	684
684	684	684	684	684	684	684	684	684	684	684
684	684	684	684	684	684	684	684	684	684	684
684	684	684	684	684	684	684	684	684	684	684
684	684	684	684	684	684	684	684	684	684	684

-0-0-0-0-0-0-0-0-0-0-

★ VARIOUS MODES ★

::: M42/X06 FAPSI

Earlier this month, mr Putin surprised us with a number of changes that he has implemented. One of them means the end of FAPSI.

President Putin has reinforced the powers of the Federalnaya Sluzhba Bezopasnosti - FSB (Federal Security Service), the successor to the former KGB, by abolishing two other powerful agencies. The Federal Tax Police Service and the Federal Agency for Governmental Communication and Information (FAPSI) are both history. The tasks of the Tax Police will be taken over by the Interior Ministry. FAPSI's functions will be divided between the Defence Ministry and the FSB. Another change is the position of the Border Guard Service, that will be placed under the supervision of the first deputy director of the FSB.

But that is not all. Ex-director of FAPSI Viktor Matyukhin the first deputy defence minister at the head of a newly established state committee under the Defence Ministry, which will be in charge of state defence.

There are also rumours that say that a new agency will shortly appear. This new agency, the Federal Investigation Service (FSR), according to sources in the Interior Ministry, would be the counterpart of the FBI in the USA. (Source: Gazeta)

So, now FAPSI is gone and FSB and MOD will take over, I suggest that we will log them as "Department of State Communications". We don't know the contents of the messages. They can be diplo related, intel related or even of a military nature or a combination of these. They are state communications, that's for sure, so Dept of State Comms would be a good one i.m.h.o.

This month's logs:

- Mazielka calls (X06) were reported on:
 - 8082 kHz on 20-3 at 1805 UTC
 - 10519.4 kHz on 19-3 at 1545 UTC

- M42 logs:

Frequency date UTC details/mode

7810.0 19-3 1756 link 00031 to LKF, mode: Baudot 150bd/500Hz
10519.4 19-3 1545 mode: CROWD36
12217.0 29-3 1852 link 00068, mode: Baudot 75bd/500Hz

03202 38543 30049 33790 99122 31880 72819 59088 32662 89378
12500 58034 70858 06682 28553 68649 69566 97323 90735 36980
30230 29434 43439 04613 90395 22452 18291 75237 05482 05462
23391 01882 37137 39830 89674 71618 36730 88261 37992 91709
07327 95211 23893 05740 58105 62025 61827 85258 63981 <<<<<

Thanks for sharing this with us, Paul.

XP has used the following schedules in March:

0700 UTC - 13548 kHz	2100 UTC - 9140 kHz	2110 UTC - 10972 kHz
0720 UTC - 14948 kHz	2120 UTC - 7610 kHz	2130 UTC - 9475 kHz
0740 UTC - 16248 kHz	2140 UTC - 6840 kHz	2150 UTC - 8122 kHz

XPH 1830 UTC - 11617 kHz
1850 UTC - 10130 kHz
1910 UTC - ?

Due to the change to summertime per April all schedules will be one hour earlier next month.

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::: JAMMERS

Besides the usual bunch from Iran and Iraq in the 7MHz band, the following jammers were reported:

Cuba: 6030 kHz
India: 5102 kHz
S.Korea: 657, 819, 999, 1053, 1080, 6520 kHz
Saudi Arabia: 7590 kHz

And of course this one:

[Mar 20] With the words "The facilities of the Iraqi regime have started to be hit... This is the day we have been waiting for... The attack on Iraq has begun," the United States jammed and then obliterated Baghdad Radio with its own psychological war programming, Reuters reports, in a remarkable move to control the airwaves over Iraq. (Info via CRW)

-0-0-0-0-0-0-0-0-0-0-

* MILITARY STATIONS *

Jim, John and others hunted for Russian and Ukrainian military stations and found the following bunch:

::: RUSSIAN/CIS MILITARY STATIONS

Freq.	QSO	Callsigns
18.1		RDL, Moscow transmitting from various tx sites
2362		LIBL
3217		G1S7, SUTP, TSNE, FX8V
3348	3819	VNH3, W8TK, DNGM, CAJK, NOV1, ARY4, AAOL, MZD5, LR9G, NRIQ, P3M8, AHQX, GG1W, SHLG, WL6T, 6CK5, 8XUB, MVB2, MS3A, KQ5C, KONE, ZIHL, SFWU, QCSL, KG2M, DCLN
3813		LDBO
3819	3348	SHLG, GG1W, MS3A, KGZM
3863		YNYJ, GRNX, QTON, DBY6, VNH3, I1SX, VUZE
3954	4456	OW9X,
4456	3954	TMPQ, B72W, Y9NZ, 2ETN, DNFH, WL6T, 8UXB
5407	5851	PBZM, AVFN, IBQH, PG40
5851	5407	PG40
6957	7964	GJKP
6970	*)	HAHS, LDBO
7964	6957	OMKE, 5I6E, GGJZ, ZZ2T, WRVT, GRXB, 9BQR, QHSU, OV5I, GJKP, F8P7

Notes: 3348, 3863 3954 are in the same network.

*) LDBO was also heard on 3813 kHz

Sample messages:

915 33 21 2340 915 = ZRS 573 =
PPPPP YNYNA...JDhoZ YNYNA AXhAX WaPWO = 512 K

553 24 23 0058 553 = ZCB 321 =
PPPPP APIND...APIND XBBhK WEPWP = 747 K.

143 67 3 0235 143 = ZKK 129 =
AAAAA QDABH...NOLTu KWKEG

Flash messages:

XXX XXX ESUP ESUP 69327 OKRUVNYJ 835 69327 OKRUVNYJ 835 K

XXX XXX URJ URJ URJ SHTANDART 790467 repeated

XXX XXX RDL RDL 67137 81754 28363 GUMMA 5254 4538
XXX XXX RDL RDL 67137 81754 28363 GUMMA 5254 45iiii GUMMA 5254 4iiii
Broadcast aborted, then a little later:
U XXX XXX RDL RDL 67137 81754 GUMMA 5254 4538
XXX XXX RDL RDL 67137 81754 GUMMA 5254 4538 K

XXX XXX RDL RDL 73984 48035 WIZVANIE 2393 1159
XXX XXX RDL RDL 73984 48035 WIZVANIE 2393 1159 K

XXX XXX RDL RDL 45037 03267 GLU0BA 0483 9107
XXX XXX RDL RDL 45037 03267 GLU0BA 0483 9107 K

XXX XXX RDL RDL 25049 91468 AMMOBIUM 9257 0404
XXX XXX RDL RDL 25049 91468 AMMOBIUM 9257 0404 K

XXX XXX RJC38 RJC38 24520 NEOSLABNYJ 8442 3825 K

<<<<<>>>>>

::: UKRAINIAN MILITARY STATIONS

Frequencies	Callsigns
2780	SLG8, 1DFR, NMW2, BBSQ, 1COQ
3348// 3863	YEEH, HOGL, IW5E, 4E8D, SLLM, VX8Q, TDKY, 5SK1, 6VMB, MRYN, FD00, 1JLF, I4DS, 6THG, IC8L, 6VMB, NSX4, I4DS, V1B9
3775	NAQJ, FL1Y, XLXZ, EL4B, SYLE, X10M, ZDIC, CFM7, MKCT, AKK9, OX1K, ZHYG, IYED, BEYL
3813	LKGI
3848	I8NT
3863//3348	WNC7, ALIR, CK0T, QYT1, OAAP, WK3F, WZCU, V8D3, FDHN, NX4Q, HI1Y, LG5M, IN4D, DVXU, 4SLD, A7EC, MXX5, A7EC
3893	9WQV, KSFD, AUGN, 5QBW
4826	QNVN, APAQ, VC7N, 3WH7

Sample messages:

050 64 3 1800 050 = 390 =
AAAAA PYKSC...[ending] KBWRL KWKEK = K

261 100 20 2125 261 =
UUUUU SWaRR..FNKVZ BKKII K. (Broadcast)

847 62 3 1805 847 = 388 087 115 =
40913 32754...[ending] 51497 03058 = 734
[rpts msg] AR

<<<<<>>>>>

::: CHINESE MILITARY STATIONS

4435.4 kHz: V MW3D MW3D MW3D de 2SLC 2SLC
5381.9 kHz: V LA5S LA5S LA5S de NH8T NH8T

6992 kHz: V GM3Z GM3Z GM3Z DE PNW9 PNW9
7052 kHz: V CP17 CP17 CP17 DE L9CC L9CC
8042 kHz: V LA5S LA5S LA5S DE NH8T NH8T

Logged by "L" and "JUM"

More Chinese military stuff was supplied by Igor:

8802 kHz, 24 March, 0100 UTC, 4FGs, Short zero.

Complete transcript:

vvv xsv86 xsv86 xsv86 de 3sy 3sy 3sy msg (R4)
msg ga
nr o6o5 ck 215 24 o324 o9o5 = =
u545 65t7 3nt7 6ta5 67d4 6dau 35du tan3 6na4 7utd
at5d tu34 un4a ~67d 7nt3 6au7 67nu 553d dn5t a353
5dtn 7536 un6t u74~ ~4t 3uut 457d n~du 637a 3~3~
73n5 a73t 74u6 na34 56da u456 d4t5 at~7 dnt4 3dnt
d64n u456 7dnt aud3 4a5n au56 7dt3 37n6 5tu4 a37t
at5u n74u 7na3 456d d76~ tu63 n356 73dt 5utd 3a4t
u34~ ~n56 un76 d37t a3t6 a756 dnt5 d47n da53 t64a
d65n u3nd 647n a3t5 ua75 6a5u t457 dnt6 a375 utd4
45ad 53u4 3u45 67dt a6n5 n4ta 73a6 3nut n~7t 7d6u
6ud3 t6un ndta u346 7ta3 567a t47u nd55 na57 d354
iii 2p = =
5576 ~ud4 aun7 7t~3 5na6 adn~ ~463 t657 453t 4u6d
tn~5 t356 43n6 ~a3u dut7 t5~6 4an7 dnu4 a457 5a7n
5dn~ 3au6 d537 ~54n 46td ut4n tau4 35d~ 6u7a 57tn
6un7 534u t75a 6nt3 57ad td47 dua3 7643 n65u 4atn
63~~ ~tdn dta7 ~46n u345 5~~~ ~td5 67t4 53au t6n7
dd4u n6at d75n 76na 34d5 ~6a7 n~~~ 5ta4 a4~7 3u~~
~576 53td 7~~4 d5a4 ~t~n a3~~ ~5t 74au 76n3 6d4~
63n7 a73d 5u6t t45d nu47 5n3a t6a3 tud4 d456 tn7a
753d a34u tua3 467n ntu6 5t7d 65dn 34ua 6tda 547n
74da a5un 7dnt tu35 na6t 5u7n 63dn 6d34 374u a465
iii 3p = =
47~4 34t6 35u4 5n6a 5dta 746d 3~5tu 73ut dan5
d6nu td65 a5dt d73n 35n6 u453
ar * * *
znn sk znn sk
ar * * *

10588 kHz, 25 March, 0151 UTC, 4FGs, short zero.

Transcript:

```

bjcq bjcq bjcq de 3sw 3sw 3sw (rptd)
msg nr 4oo3/3o5 ck 85 o325 o91o = =
4u7t unu7 nt5t unu7 7547 5d47 4un4 naa5 n3un u7un
aau7 74un 675d nuun 7nau 5u74 45tt 67t5 aa7n 6t7n
udu4 n4u6 77n4 aa5t uuaa 4334 t3uu 7t3u 5u67 du4n
u6n4 4464 u6t4 4545 5aan u5du t67n u6t5 67u6 duu6
5t3u 4uaa u67n u6u6 7udu t7un udu7 unu6 t7na t6tn
un4u 4uun u634 u75t 74dt 5uu6 n467 4u75 47du u6tt
3unt 3uu6 n334 4645 45n4 5aa5 t467 4674 7n4u udun
3u64 4754 du5d 4754 67tt 5d47 u5u6 n47t nt34 7nun
7tt5 t75u 5uun nu7t 7nu6
ar * * *
agn nr 4oo3/3o5 ck 85 o325 o91o = =
4u7t unu7 nt5t unu7 7547 5d47 4un4 naa5 n3un u7un
aau7 74un 675d nuun 7nau 5u74 45tt 67t5 aa7n 6t7n
udu4 n4u6 77n4 aa5t uuaa 4334 t3uu 7t3u 5u67 du4n
u6n4 4464 u6t4 4545 5aan u5du t67n u6t5 67u6 duu6
5t3u 4uaa u67n u6u6 7udu t7un udu7 unu6 t7na t6tn
un4u 4uun u634 u75t 74dt 5uu6 n467 4u75 47du u6tt
3unt 3uu6 n334 4645 45n4 5aa5 t467 4674 7n4u udun
3u64 4754 du5d 4754 67tt 5d47 u5u6 n47t nt34 7nun
7tt5 t75u 5uun nu7t 7nu6
ar sk

```

8375 kHz, 1330 UTC, 28 March, 4FGs, short zero.

Complete transcript:

```

vvv vvv vvv cq cq cq de bkg bkg bkg hr nw hr nw hr nw ar ar
vvv vvv vvv cq cq cq de bkg bkg bkg hr nw hr nw hr nw ar ar
vvv vvv vvv cq cq cq de bkg bkg bkg hr nw hr nw hr nw ar ar
vvv vvv vvv cq cq cq de bkg bkg bkg hr nw hr nw hr nw ar ar
vvv vvv vvv cq cq cq de bkg bkg bkg hr nw hr nw hr nw ar ar
vvv vvv vvv cq cq cq de bkg bkg bkg hr nw hr nw hr nw ar ar
vvv vvv vvv cq cq cq de bkg bkg bkg hr nw hr nw hr nw ar ar
vvv vvv vvv cq cq cq de bkg bkg bkg hr nw hr nw hr nw ar ar
rapid dots
hr nw nr01 nr01 38 38 = =
ut5a ut5a nn63 nn63 uuta uuta nd4t nd4t d444 d444
t465 t465 6uaa 6uaa dn65 dn65 6464 6464 433d 433d
ut74 ut74 7a6u 7a6u 33n5 33n5 33u6 33u6 u474 u474
natn natn 5ad7 5ad7 dnun dnun d736 d736 4at6 4at6
5un7 5un7 7u6u 7u6u 5t35 5t35 644t 644t 535u 535u
n3ua n3ua dnau dnau 5ttt 5ttt nua6 nua6 6uua 6uua
t5d6 t5d6 t675 t675 t7dt t7dt 7a5n 7a5n t4a7 t4a7
3t7n 3t7n 553a 553a tu3d tu3d
rapid dots

```

hr nw nr01 nr01 38 38 = =
ut5a ut5a nn63 nn63 uuta uuta nd4t nd4t d444 d444
t465 t465 6uaa 6uaa dn65 dn65 6464 6464 433d 433d
ut74 ut74 7a6u 7a6u 33n5 33n5 33u6 33u6 u474 u474
natn natn 5ad7 5ad7 dnun dnun d736 d736 4at6 4at6
5un7 5un7 7u6u 7u6u 5t35 5t35 644t 644t 535u 535u
n3ua n3ua dnau dnau 5ttt 5ttt nua6 nua6 6uua 6uua
t5d6 t5d6 t675 t675 t7dt t7dt 7a5n 7a5n t4a7 t4a7
3t7n 3t7n 553a 553a tu3d tu3d
rapid dots
znn qrx sk znn qrx sk

-0-0-0-0-0-0-0-0-0-0-

::: UNID STATION

Since a couple of months you can hear a 3-tone on 8336 kHz. It's on the air at various times, every night of the week. Mostly between h+50 and h+59. I heard it a couple of times between 1855 and 1900 UTC. Other dxers have also heard the signal but so far we don't know what its purpose is. Bearings from Wilhelmshaven (Germany) were between 100 and 220 degrees. Could this be some sort of a selcall or wake-up call? You can download a sample of the signal from the N&O site at <http://home.luna.nl/~ary/download.htm>

-0-0-0-0-0-0-0-0-0-0-

* INTELLIGENCE NEWS *

The launch of two Japanese spy satellites is planned for 28 March. The satellites are Japan's response to North Korea's missile threat. The decision for the launch was made after North Korea fired a suspected medium-range Taepodong missile over the country into the Pacific in August. Two reserve satellites are scheduled for March 2007 and two more in March 2009.

-0-0-0-0-0-0-0-0-0-0-

* INTELLIGENCE PROFILE: LIBYA *

Background:

Since he took power in a 1969 military coup, Col. Muammar Abu Minyar al-Kadhafi has espoused his own political system - a combination of socialism and Islam - which he calls the Third International Theory. Viewing himself as a revolutionary leader, he used oil funds during the 1970s and 1980s to promote his ideology outside Libya, even supporting subversives and terrorists abroad to hasten the end of Marxism and capitalism. Libyan support for terrorism decreased after

UN sanctions were imposed in 1992. Those sanctions were suspended in April 1999. Jamahiriya (a state of the masses) in theory, governed by the populace through local councils; is in fact, a military dictatorship.

General:

Local name: Al Jumahiriya al Arabiya al Libiya ash Shabiyah al Ishtirakiyah al Uzma (Great Socialist People's Libyan Arab Jamahiriya)
Short name: Libya
Capital : Tripoli

Military branches:

Armed Peoples on Duty (Army)
Navy
Air and Air Defense Command (includes Air Force)

Intelligence and security:

- Maktab Maaloumat al-Kaed:

The Guide's (= Kadhafi) Intelligence Bureau is a major coordinating body. Located in the Bab al-Aziza barracks in the center of Tripoli.

- Haiat amn al Jamahiriya
The Jamahiriya's Security Organization

This service is divided into two branches: Internal Security, and Foreign Security. This organization has several branches, amongst which: Foreign Liaison Office, which has overall responsibility for most overseas intelligence operations and a sub-directorate provides direct contact with international terrorist groups.

Foreign Security Special Operations,
External Security (including External Operations and Fundamentalists Movements).

- Istikhbarat Askaria
Military Intelligence

- Kataeb al Amn
Security Battalions, including the Green Brigades

Responsible for the regime's security in the major cities.

- Al Haras Assauri
The Revolutionary Guard

Responsible for the security of Colonel Kadhafi and his family.

-0-0-0-0-0-0-0-0-0-0-

* LOGS SECTION *

3150.0 E10 PCD2 USB 04-03-03 Tue 0330 (BS4)
3150.0 E10 PCD2 USB 08-03-03 Sat 2330 (GG)
3150.0 E10 PCD2 USB 10-03-03 Mon 2300 (GG)
3150.0 E10 PCD2 USB 13-03-03 Thu 0330 (BS4)
3150.0 E10 PCD 99 XNFXJ USB 14-03-03 Fri 1830 (GG)
3150.0 E10 PCD USB 14-03-03 Fri 2200 (GG)
3150.0 E10 PCD2/6498 USB 18-03-03 Tue 0330 (BS4)
3150.0 E10 PCD2 USB 21-03-03 Fri 0330 (BS4)
3150.0 E10 PCD2/6498 USB 25-03-03 Tue 0330 (BS4)
3150.0 E10 PCD2//6498 USB 29-03-03 Sat 0330 (BS4)
3244.0 M08a ID 45711 10461 07192 CW 01-03-03 Sat 1000 (MS)
3270.0 E10 KPA2 out of usual time slot USB 14-03-03 Fri 2137 (GG)
3292.0 V02a A 11321 44911 04323 AM 08-03-03 Sat 0400 (BM)
3386 XM Whales 20-03-03 (LC2)
3415.0 E10 ART 117 IEHBQ USB 14-03-03 Fri 1830 (GG)
3415.0 E10 ART USB 14-03-03 Fri 2130 (GG)
3415.0 E10 ART 95 LGHJU USB 14-03-03 Fri 2200 (GG)
3415.0 E10 ART 74 XIRGQ/5435 USB 24-03-03 Mon 0200 (BS4)
3594.3 MX Cluster beacon "K", Petropavlovsk Kamchatskiy CW
18-03-03 1118 (JUM)
3640.0 E10 SYN2/5230 USB 09-03-03 Sun 0245 (BS4)
3640.0 E10 SYN2/5230 USB 11-03-03 Tue 0245 (BS4)
3640.0 E10 SYN2//5230 USB 27-03-03 Thu 2245 (BS4)
3803 M18 Russian mil. Time strings 2247 2248 2249 etc (UTC+3)
CW 16-03-03 Sun 1947 (AB)
3840.0 E10 YHF 33 NBPPJ/4560 USB 04-03-03 Tue 0330 (BS4)
3840.0 E10 YHF 33 NBPPJ/4560 USB 06-03-03 Thu 0330 (BS4)
3840.0 E10 YHF 21 QTKAT USB 14-03-03 Fri 2200 (GG)
3840.0 E10 YHF2 USB 17-03-03 Mon 2300 (GG)
3840.0 E10 YHF 79 U-MU-/4560 USB 18-03-03 Tue 0330 (BS4)
3840.0 E10 YHF 79 UUMUJ/4560 USB 21-03-03 Fri 0330 (BS4)
3840.0 E10 YHF 39 IVXHI/4560 USB 25-03-03 Tue 0330 (BS4)
3840.0 E10 YHF 39 IVXHI//4560 USB 29-03-03 Sat 0330 (BS4)
3840.0 E10 YHF 160 HDRGW USB 31-03-03 Mon 0005 (BS4)
4007.0 M10 555:729/29-698/26 CW 16-03-03 Sun 2100 (HFD)
4015.0 E10 VLB2 USB 09-03-03 Sun 0245 (BS4)
4015.0 E10 VLB2 USB 11-03-03 Tue 0245 (BS4)
4015.0 E10 VLB2 USB 27-03-03 Thu 2245 (BS4)
4027.0 M08a ID 45711 10461 07192 (rpt of CW 01-03-03 Sat 1100 (MS)
4028.0 V02a In prog; A _____ 44911 _____ AM 08-03-03 Sat 0314 (BM)
4028.0 V02a YL/SS 5F msgs USB 27-03-03 Thu 0005 (DWC)
4165.0 E10 CI02 (ex KPA QRG) AM 03-03-03 Mon 1750 (HFD)
4165.0 E10 CI02 USB 09-03-03 Sun 0245 (BS4)

4165.0 E10 CI02 USB 11-03-03 Tue 0245 (BS4)
 4165.0 E10 CI02 USB 11-03-03 Tue 2145 (GG)
 4174.0 V02a Weak signal AM 24-03-03 Mon 0300 (GWI)
 4270 E10 PCD2 AM 12-03-03 2030 (HPT)
 4270.0 E10 PCD 17 LJXKJ USB 08-03-03 Sat 2230 (GG)
 4270.0 E10 PCD2 USB 08-03-03 Sat 2330 (GG)
 4270.0 E10 i/p on rpt = 119 XYZJN USB 10-03-03 Mon 2241 (GG)
 4270.0 E10 PCD2 USB 10-03-03 Mon 2300 (GG)
 4270.0 E10 PCD 99 XNFXJ USB 14-03-03 Fri 1830 (GG)
 4270.0 E10 PCD USB 14-03-03 Fri 2200 (GG)
 4270.0 E10 PCD 2 msgs: 48 LAFPG / 89 KDP USB 17-03-03 Mon 0030 (GG)
 4360 E10 KPA2 AM 12-03-03 2127 (HPT)
 4360.0 E10 KPA2/7445 USB 01-03-03 Sat 2315 (BS4)
 4360.0 E10 KPA2/6370 USB 11-03-03 Tue 0215 (BS4)
 4360.0 E10 KPA2 out of time slot USB 11-03-03 Tue 2152 (GG)
 4360.0 E10 KPA2 out of usual time slot USB 14-03-03 Fri 2137 (GG)
 4360.0 E10 KPA2/6370 USB 19-03-03 Wed 0215 (BS4)
 4362 E10 KPA2 AM 17-03-03 2019 (JP)
 4362 E10 KPA2 AM 17-03-03 2128 (JP)
 4362 E10 KPA2 AM 17-03-03 2206 (JP)
 4391 M21 Russian Air Defense CW 12-03-03 2115 (HPT)
 4454,0 S21 454-357/68=03#6#, 4454 stronger, //4854 AM 23-03-03 Thu 1842 (HFD)
 4454.0 S21 very bad, "454 358 61 BT 0396 AM 11-03-03 Tue 1842
 4461 E10 AM 17-03-03 2020 (JP)
 4461.0 E10 FTJ2 USB 02-03-03 Sun 0400 (BS4)
 4461.0 E10 FTJ USB 05-03-03 Wed 0100 (BS4)
 4461.0 E10 i/p 118 JPHF? USB 06-03-03 Thu 2338 (GG)
 4461.0 E10 FTJ in tfc USB 09-03-03 Sun 0300 (BS4)
 4461.0 E10 FTJ USB 12-03-03 Wed 2030 (GG)
 4461.0 E10 FTJ2 USB 14-03-03 Fri 1830 (GG)
 4461.0 E10 ULX 56 UWWRM USB 14-03-03 Fri 2130 (GG)
 4461.0 E10 FTJ USB 14-03-03 Fri 2130 (GG)
 4461.0 E10 FTJ2 USB 14-03-03 Fri 2200 (GG)
 4461.0 E10 FTJ2 USB 15-03-03 Sat 0400 (BS4)
 4461.0 E10 FTJ 2 msgs : 41 GMZZD / 84 EZ USB 17-03-03 Mon 2200 (GG)
 4461.0 E10 FTJ2/7358 USB 27-03-03 Thu 0400 (BS4)
 4461.0 E10 FTJ 54 BVRSN USB 28-03-03 Fri 0300 (BS4)
 4461.0 E10 FTJ 34 GHIJT USB 28-03-03 Fri 2330 (BS4)
 4461.0 E10 FTJ 54 BVRSN USB 29-03-03 Sat 0300 (BS4)
 4461.0 E10 FTJ 48 ????? USB 30-03-03 Sun 2330 (BS4)
 4464 E10 FTJ2 AM 17-03-03 1832 (JP)
 4464 E10 AM 17-03-03 2034 (JP)
 4464 E10 FTJ AM 17-03-03 2103 (JP)
 4464 E10 FTJ AM 17-03-03 2130 (JP)
 4464 E10 FTJ AM 17-03-03 2200 (JP)

4479.0 V02a ID 99403 03504 85802 (YL/SS) USB 01-03-03 Sat 1100
 4485.0 M10 55x3 491x3 33 207x3 26 (R5) (CW 03-03-03 Mon 0210
 4485.0 M10 (in progress, missed callup) CW 08-03-03 Sat 0210 (MS)
 4485.0 M10 (in progress, not the // freq CW 09-03-03 Sun 0413
 4485.0 M10 555x3 343x3 18 836x3 25 (R5) CW 10-03-03 Mon 0210 (MS)
 4485.0 M10 555x3 720x3 29 698x3 26 (R5) CW 10-03-03 Mon 0400 (MS)
 4485.0 M10 555x3 343x3 18 836x3 25 (R5) CW 12-03-03 Wed 0210 (MS)
 4485.0 M10 555x3 391x3 21 289x3 17 (R5) CW 24-03-03 Mon 0210 (MS)
 4485.0 M10 555x3 601x3 21 630x3 20 (R5) CW 30-03-03 Sun 0210 (MS)
 4491.0 E10 FTJ USB 24-03-03 Mon 2330 (BS4)
 4494,0 M13 378 CW 17-03-03 Mon 2200 (HFD)
 4555,0 M45 555-358/61=03960, 4955 stronger, //4955 CW 04-03-03
 Tue 1802 (HFD)
 4560 E10 YHF AM 12-03-03 1900 (HPT)
 4560 E10 in progress AM 16-03-03 0352 (RB)
 4560.0 E10 YHF 33 NBPPJ/3840 USB 04-03-03 Tue 0330 (BS4)
 4560.0 E10 YHF 33 NBPPJ/3840 USB 06-03-03 Thu 0330 (BS4)
 4560.0 E10 YHF2/7918 USB 07-03-03 Fri 0230 (BS4)
 4560.0 E10 YHF2/5820, 7918 USB 09-03-03 Sun 0230 (BS4)
 4560.0 E10 YHF 33 NBPPJ USB 09-03-03 Sun 0330 (BS4)
 4560.0 E10 YHF 33 NBPPJ USB 13-03-03 Thu 0330 (BS4)
 4560.0 E10 YHF 33 NBPPJ USB 13-03-03 Thu 0330 (GG)
 4560.0 E10 YHF 79 UUMUJ USB 17-03-03 Mon 0330 (GG)
 4560.0 E10 YHF2 USB 17-03-03 Mon 2300 (GG)
 4560.0 E10 YHF2/7918 USB 18-03-03 Tue 0230 (BS4)
 4560.0 E10 YHF 79 UUMUJ USB 18-03-03 Tue 0330 (GG)
 4560.0 E10 YHF 79 U-MU-/3840 USB 18-03-03 Tue 0330 (BS4)
 4560.0 E10 YHF 79 UUMUJ USB 20-03-03 Thu 0330 (GG)
 4560.0 E10 YHF 79 UUMUJ/3840 USB 21-03-03 Fri 0330 (BS4)
 4560.0 E10 YHF2 USB 21-03-03 Fri 2000 (GG)
 4560.0 E10 YHF 39 IVXHI/3840 USB 25-03-03 Tue 0330 (BS4)
 4560.0 E10 YHF 39 IVXHI//3840 USB 29-03-03 Sat 0330 (BS4)
 4662,0 M13 419 CW 06-03-03 Thu 2200 (HFD)
 4662,0 M13C 419 CW 05-03-03 Wed 2200 (HFD)
 4750,0 G04 34768 58723 35 gr AM 06-03-03 Thu 2100 (HFD)
 4823 G22 Edna 186 nr236 gr20 = 20668 AM 20-03-03 2000 (GN)
 4823 G22 Edna 186 nr236 gr20 = 20668 AM 21-03-03 0030 (AF)
 4850,0 G04 34678 58723 35 gr AM 06-03-03 Thu 2130 (HFD)
 4854,0 S21 454-357/68=03#6#, 4454 stronger, //4454 AM 23-03-03
 Thu 1842 (HFD)
 4854.0 S21 very bad, "454 358 61 BT 0396 AM 11-03-03 Tue 1842
 4879.8 E10 ULX 89 GMXIX USB 14-03-03 Fri 1830 (GG)
 4880 E10 ULX AM 17-03-03 1830 (JP)
 4880 E10 ULX2 AM 17-03-03 1858 (JP)
 4880 E10 ULX2 AM 17-03-03 1930 (JP)
 4880 E10 ULX AM 17-03-03 2000 (JP)
 4880 E10 ULX AM 17-03-03 2030 (JP)
 4880 E10 ULX AM 17-03-03 2100 (JP)

4880	E10	ULX AM 17-03-03 2131 (JP)
4880	E10	ULX2 AM 17-03-03 2201 (JP)
4880	E10	ULX2 AM 17-03-03 2231 (JP)
4880.0	E10	ULX 153 NZJQW USB 01-03-03 Sat 0200 (BS4)
4880.0	E10	ULX 45 FJKYG USB 02-03-03 Sun 0400 (BS4)
4880.0	E10	ULX2/6270 USB 02-03-03 Sun 2200 (BS4)
4880.0	E10	ULX2 USB 02-03-03 Sun 2230 (BS4)
4880.0	E10	ULX2 USB 04-03-03 Tue 0330 (BS4)
4880.0	E10	ULX 9 QYLHT USB 05-03-03 Wed 0200 (BS4)
4880.0	E10	ULX2 USB 06-03-03 Thu 0330 (BS4)
4880.0	E10	ULX 72 KDVER, 55 MTMQL USB 07-03-03 Fri 0230 (BS4)
4880.0	E10	ULX 58 NPOAP USB 08-03-03 Sat 2300 (GG)
4880.0	E10	ULX 9 QYLHT USB 09-03-03 Sun 0200 (BS4)
4880.0	E10	ULX USB 09-03-03 Sun 0230 (BS4)
4880.0	E10	ULX2 USB 09-03-03 Sun 0330 (BS4)
4880.0	E10	ULX 72 KDVER, 55 MTMQL USB 11-03-03 Tue 0230 (BS4)
4880.0	E10	ULX 2 AM 13-03-03 Thu 0022 (LC2)
4880.0	E10	ULX 9 QYLHT USB 13-03-03 Thu 0200 (BS4)
4880.0	E10	ULX2 USB 13-03-03 Thu 0330 (BS4)
4880.0	E10	ULX in tfc USB 14-03-03 Fri 0030 (BS4)
4880.0	E10	ULX2 USB 14-03-03 Fri 2200 (GG)
4880.0	E10	ULX 45 FJKYG USB 15-03-03 Sat 0400 (BS4)
4880.0	E10	CIO 2 AM 17-03-03 Mon 0019 (LC2)
4880.0	E10	ULX 99 CZRBF USB 17-03-03 Mon 0030 (BS4)
4880.0	E10	ULX 111 XYOTF USB 17-03-03 Mon 2300 (GG)
4880.0	E10	ULX 111 XYOTF USB 17-03-03 Mon 2300 (GG)
4880.0	E10	ULX in tfc USB 18-03-03 Tue 0230 (BS4)
4880.0	E10	ULX2 USB 18-03-03 Tue 0330 (BS4)
4880.0	E10	ULX 77 NTIPH USB 19-03-03 Wed 0200 (BS4)
4880.0	E10	ULX 34 BRSKD USB 19-03-03 Wed 0230 (BS4)
4880.0	E10	ULX 77 NTIPH USB 20-03-03 Thu 0200 (BS4)
4880.0	E10	ULX 111 XYOTF USB 20-03-03 Thu 2300 (GG)
4880.0	E10	ULX 77 NTIPH USB 21-03-03 Fri 0200 (BS4)
4880.0	E10	ULX 77 NTIPH USB 24-03-03 Mon 0200 (BS4)
4880.0	E10	ULX 38 KCUMW, ?? ?????/6270 USB 24-03-03 Mon 2300 (BS4)
4880.0	E10	ULX2 USB 25-03-03 Tue 0330 (BS4)
4880.0	E10	ULX 20 JLFST USB 27-03-03 Thu 0400 (BS4)
4880.0	E10	ULX USB 27-03-03 Thu 2230 (BS4)
4880.0	E10	ULX 54 FCCVE USB 28-03-03 Fri 0230 (BS4)
4880.0	E10	ULX2 USB 29-03-03 Sat 0330 (BS4)
4880.0	E10	ULX 91 LWWVU USB 31-03-03 Mon 0020 (JSC)
4880.0	E10	ULX 9 QYLHT USB 31-03-03 Mon 0200 (BS4)
4955,0	M45	555-358/61=03960, 4955 stronger, //4555 CW 04-03-03 Tue 1802 (HFD)
5017,0	M01	463-129/37=27069 CW 06-03-03 Thu 2000 (HFD)
5091.0	E10	JSR in tfc USB 02-03-03 Sun 2200 (BS4)
5091.0	E10	JSR USB 02-03-03 Sun 2230 (BS4)

5091.0 E10 JSR in tfc USB 04-03-03 Tue 0330 (BS4)
5091.0 E10 JSR in tfc USB 07-03-03 Fri 2230 (BS4)
5091.0 E10 i/p 72 HFLUT USB 08-03-03 Sat 2239 (GG)
5091.0 E10 USB 10-03-03 Mon 2241 (GG)
5091.0 E10 PCD2 - normal rf for JSR USB 13-03-03 Thu 0330 (BS4)
5091.0 E10 JSR USB 14-03-03 Fri 1830 (GG)
5091.0 E10 JSR 2 msgs : 79 JBVXX / 42 IF USB 14-03-03 Fri 2130
5091.0 E10 JSR 63 FJYRH USB 14-03-03 Fri 2200 (GG)
5091.0 E10 JSR 26 WODAB USB 16-03-03 Sun 2230 (GG)
5091.0 E10 JSR 63 FJYRH USB 17-03-03 Mon 2200 (GG)
5091.0 E10 JSR 29 HXZPZ USB 18-03-03 Tue 2130 (GG)
5091.0 E10 JSR 29 HXZPZ USB 19-03-03 Wed 2130 (GG)
5091.0 E10 JSR 29 HXZPZ USB 20-03-03 Thu 2130 (GG)
5091.0 E10 JSR 51 NHYJZ USB 20-03-03 Thu 2200 (GG)
5091.0 E10 JSR 72 ERMD0 USB 20-03-03 Thu 2230 (GG)
5091.0 E10 JSR 72 ERMD0 USB 20-03-03 Thu 2230 (GG)
5091.0 E10 JSR2 USB 21-03-03 Fri 2000 (GG)
5091.0 E10 JSR USB 21-03-03 Fri 2230 (GG)
5091.0 E10 JSR in tfc USB 27-03-03 Thu 2230 (BS4)
5091.0 E10 JSR 11 JIWEW USB 29-03-03 Sat 0330 (BS4)
5091.0 E10 JSR in tfc USB 30-03-03 Sun 2200 (BS4)
5091.0 E10 JSR USB 30-03-03 Sun 2230 (BS4)
5153.0 MX C moscou no msg CW 17-03-03 Mon 0019 (LC2)
5154.2 MX Cluster beacon "F" CW 04-03-03 1120
5154.4 MX Cluster beacon "M", Magadan CW 18-03-03 1118 (JUM)
5159.0 M22 4XZ gr 181 qrm with unid tele CW 17-03-03 Mon 0020
5170.0 E10 CI02 USB 11-03-03 Tue 2145 (GG)
5170.0 E10 CI02 USB 18-03-03 Tue 2248 (GG)
5170.0 E10 CI02 USB 27-03-03 Thu 2245 (BS4)
5222 E10 ABC AM 18-03-03 2129 (RiN)
5230.0 E10 SYN2/3640 USB 09-03-03 Sun 0245 (BS4)
5230.0 E10 SYN2/3640 USB 11-03-03 Tue 0245 (BS4)
5230.0 E10 SYN2 USB 11-03-03 Tue 2145 (GG)
5230.0 E10 SYN2 USB 18-03-03 Tue 2248 (GG)
5230.0 E10 SYN 2 AM 27-03-03 Thu 0021 (LC2)
5230.0 E10 SYN 2 AM 27-03-03 Thu 0021 (LC2)
5230.0 E10 SYN2//3640 USB 27-03-03 Thu 2245 (BS4)
5288.0 M13 411 CW 02-03-03 Sun 2130 (HFD)
5288.0 M13 411 (R5) BT 247 21 BT CW 01-03-03 Sat 0530 (MS)
5301 S17c 11036 AM 01-03-03 1250 (AF)
5301.0 M10 555:142/16-264/18 CW 17-03-03 Mon 2200 (HFD)
5301.0 S17C 11036, //8190 AM 01-03-03 Sat 1250 (HFD)
5301.0 S17C 98036, //8190 AM 02-03-03 Sun 1250 (HFD)
5301.0 S17C 11036, //8190 AM 03-03-03 Mon 1250 (HFD)
5301.0 S17C 99036, //8190 AM 07-03-03 Fri 1250 (HFD)
5301.0 S17C 90039, //8190 AM 08-03-03 Sat 1250 (HFD)
5301.0 S17C 91034, //8190 AM 09-03-03 Sun 1250 (HFD)
5301.0 S17C 84044, //8190 AM 15-03-03 Sat 1250 (HFD)

5301,0 S17C 90036, //8190 AM 16-03-03 Sun 1250 (HFD)
5301,0 S17C 99037, //8190 AM 23-03-03 Sun 1250 (HFD)
5301,0 S17C 10036, //8190 AM 29-03-03 Sat 1250 (HFD)
5301.0 M10 (in progress. Probably 0450z CW 10-03-03 Mon 0458 (MS)
5301.0 M10 555x3 (too weak for further c CW 24-03-03 Mon 0450
5339.0 E10 VLB2 USB 11-03-03 Tue 2145 (GG)
5339.0 E10 VLB2 USB 18-03-03 Tue 2248 (GG)
5340.0 E10 VLB 2 AM 27-03-03 Thu 0021 (LC2)
5340.0 E10 AM 27-03-03 Thu 0021 (LC2)
5435.0 E10 ART 95 LGHJU USB 01-03-03 Sat 0200 (BS4)
5435.0 E10 ART USB 01-03-03 Sat 2200 (BS4)
5435.0 E10 ART in tfc USB 01-03-03 Sat 2330 (BS4)
5435.0 E10 ART 66 JGVLD/6986 USB 02-03-03 Sun 0400 (BS4)
5435.0 E10 USB 02-03-03 Sun 2004 (GG)
5435.0 E10 ART 95 LGHJU Repeat of msg 02 USB 02-03-03 Sun 2200
(BS4)
5435.0 E10 ART 69 BCXCD USB 02-03-03 Sun 2230 (BS4)
5435.0 E10 ART 95 LGHJU USB 04-03-03 Tue 0200 (BS4)
5435.0 E10 ART 77 YHBJA USB 05-03-03 Wed 0001 (BS4)
5435.0 E10 ART 95 LGHJU USB 05-03-03 Wed 0200 (BS4)
5435.0 E10 ART 69 BCXCD USB 06-03-03 Thu 2230 (GG)
5435.0 E10 ART 61 JCSYA USB 06-03-03 Thu 2300 (GG)
5435.0 E10 ART USB 07-03-03 Fri 0200 (GG)
5435.0 E10 ART with a 107 5LG msg USB 07-03-03 Fri 2000 (GG)
5435.0 E10 ART 15 ALUMH USB 07-03-03 Fri 2130 (GG)
5435.0 E10 ART 95 LGHJU USB 07-03-03 Fri 2200 (GG)
5435.0 E10 ART 69 BCXCD USB 07-03-03 Fri 2230 (GG)
5435.0 E10 ART 69 BCXCD USB 07-03-03 Fri 2230 (BS4)
5435.0 E10 ART 61 JCSYA USB 07-03-03 Fri 2300 (GG)
5435.0 E10 ART2 USB 07-03-03 Fri 2330 (GG)
5435.0 E10 ART 168 CCHXD USB 08-03-03 Sat 2030 (GG)
5435.0 E10 ART 95 LGHJU USB 08-03-03 Sat 2200 (GG)
5435.0 E10 ART 69 BCXCD USB 08-03-03 Sat 2230 (GG)
5435.0 E10 ART 61 JCSYA USB 08-03-03 Sat 2300 (GG)
5435.0 E10 ART2 USB 08-03-03 Sat 2330 (GG)
5435.0 E10 ART 95 LGHJU USB 09-03-03 Sun 0200 (BS4)
5435.0 E10 ART 77 YHBJA USB 10-03-03 Mon 0001 (BS4)
5435.0 E10 ART 61 JCSYA (down one E10 30 USB 10-03-03 Mon 2230
(GG)
5435.0 E10 ART 2 msgs : 12 QNXGZ / 16 YI USB 10-03-03 Mon 2300
(GG)
5435.0 E10 ART 168 CCHXD USB 11-03-03 Tue 2030 (GG)
5435.0 E10 ART2 USB 12-03-03 Wed 0130 (BS4)
5435.0 E10 ART2 USB 13-03-03 Thu 0130 (GG)
5435.0 E10 ART 95 LGHJU USB 13-03-03 Thu 0200 (BS4)
5435.0 E10 ART 72 ZPNYT USB 14-03-03 Fri 2000 (GG)
5435.0 E10 ART 90 KXQRR USB 14-03-03 Fri 2030 (GG)
5435.0 E10 ART2 USB 14-03-03 Fri 2030 (GG)

5435.0 E10 ART 95 LGHJU USB 14-03-03 Fri 2200 (GG)
5435.0 E10 ART 79 BCXCD USB 14-03-03 Fri 2230 (GG)
5435.0 E10 ART 81 SZMNP/6986 USB 15-03-03 Sat 0430 (BS4)
5435.0 E10 ART with QRN USB 15-03-03 Sat 2000 (GG)
5435.0 E10 ART 90 KXQRR USB 15-03-03 Sat 2130 (GG)
5435.0 E10 ART 95 LGHJU USB 15-03-03 Sat 2200 (GG)
5435.0 E10 ART 69 BCXCD USB 15-03-03 Sat 2230 (GG)
5435.0 E10 ART 61 USTFM USB 16-03-03 Sun 2000 (GG)
5435.0 E10 ART2 USB 16-03-03 Sun 2030 (GG)
5435.0 E10 ART 90 KXQRR USB 16-03-03 Sun 2130 (GG)
5435.0 E10 ART 95 LGHJU USB 16-03-03 Sun 2200 (BS4)
5435.0 E10 ART 95 LGHJU USB 16-03-03 Sun 2200 (GG)
5435.0 E10 ART 61 USTFM USB 17-03-03 Mon 2000 (GG)
5435.0 E10 ART USB 17-03-03 Mon 2300 (GG)
5435.0 E10 ART 74 XIRGQ USB 20-03-03 Thu 0200 (BS4)
5435.0 E10 ART 76 VQVIG/6986 USB 20-03-03 Thu 0400 (BS4)
5435.0 E10 ART 76 VQVIG USB 20-03-03 Thu 0400 (GG)
5435.0 E10 ART 19 NB?NR USB 20-03-03 Thu 2300 (GG)
5435.0 E10 ART USB 21-03-03 Fri 0001 (BS4)
5435.0 E10 ART in tfc USB 21-03-03 Fri 0130 (BS4)
5435.0 E10 ART 74 XIRGQ USB 21-03-03 Fri 0200 (BS4)
5435.0 E10 ART 74 XIRGQ/3415 USB 24-03-03 Mon 0200 (BS4)
5435.0 E10 ART 50 NBNEO USB 24-03-03 Mon 2300 (BS4)
5435.0 E10 ART 22 CLOIF USB 24-03-03 Mon 2330 (BS4)
5435.0 E10 ART 33 NHYJZ/6986 USB 27-03-03 Thu 0400 (BS4)
5435.0 E10 ART USB 27-03-03 Thu 2230 (BS4)
5435.0 E10 ART in tfc USB 28-03-03 Fri 2330 (BS4)
5435.0 E10 ART USB 30-03-03 Sun 0010 (PD2BS)
5435.0 E10 ART 74 XIRGQ USB 30-03-03 Sun 2200 (BS4)
5435.0 E10 ART 69 BCXCD USB 30-03-03 Sun 2230 (BS4)
5435.0 E10 ART 46 FBTTT USB 30-03-03 Sun 2300 (BS4)
5435.0 E10 ART 11 BOBYC USB 30-03-03 Sun 2330 (BS4)
5435.0 E10 ART2 USB 31-03-03 Mon 0005 (BS4)
5435.0 E10 ART2 USB 31-03-03 Mon 0200 (BS4)
5437.0 E10 ART 56 PAKBK USB 03-03-03 Mon 0030 (GG)
5437.0 E10 ART 56 PAKBK USB 04-03-03 Tue 0030 (GG)
5437.0 E10 ART 37 CIBOT USB 06-03-03 Thu 0030 (GG)
5437.0 E10 ART 37 CIBOT USB 07-03-03 Fri 0030 (GG)
5437.0 E10 ART USB 09-03-03 Sun 0030 (GG)
5437.0 E10 ART 37 CIBOT USB 10-03-03 Mon 0030 (GG)
5437.0 E10 ART 37 CIBOT USB 11-03-03 Tue 0030 (GG)
5437.0 E10 ART 29 group msg USB 11-03-03 Tue 2000 (GG)
5437.0 E10 ART 37 CIBOT USB 13-03-03 Thu 0030 (GG)
5437.0 E10 ART 117 IEHBQ USB 14-03-03 Fri 1830 (GG)
5437.0 E10 ART USB 14-03-03 Fri 2130 (GG)
5437.0 E10 ART2 USB 17-03-03 Mon 0030 (GG)
5437.0 E10 ART 2 msgs : 63 SO?PN / ?? ?? USB 18-03-03 Tue 0030
(GG)

5437.0 E10 10 WPTLH USB 20-03-03 Thu 0030 (GG)
5437.0 E10 ART 10 WPTLH USB 21-03-03 Fri 0030 (GG)
5437.0 E10 10 WPTLH USB 21-03-03 Fri 0030 (GG)
5474,0 M01 463 CW 20-03-03 Thu 1800 (HFD)
5746.0 E03 00698 USB 14-03-03 Fri 2200 (GG)
5746.0 E03 93825 USB 21-03-03 Fri 2200 (GG)
5762.0 V02a A 23411 _____ AM 08-03-03 Sat 0402 (BM)
5820.0 E10 YHF2 USB 01-03-03 Sat 2130 (BS4)
5820.0 E10 YHF2 USB 02-03-03 Sun 2130 (BS4)
5820.0 E10 YHF in tfc USB 02-03-03 Sun 2200 (BS4)
5820.0 E10 YHF in tfc/7918 USB 05-03-03 Wed 0130 (BS4)
5820.0 E10 YHF2 USB 08-03-03 Sat 2130 (BS4)
5820.0 E10 YHF and ART both calling, nor USB 08-03-03 Sat 2200
5820.0 E10 (probably YHF) 88 YHYZD USB 08-03-03 Sat 2206 (GG)
5820.0 E10 YHF2/4560, 7918 USB 09-03-03 Sun 0230 (BS4)
5820.0 E10 YHF2 USB 09-03-03 Sun 2130 (GG)
5820.0 E10 YHF 88 YHYZD USB 09-03-03 Sun 2200 (GG)
5820.0 E10 YHF2 USB 10-03-03 Mon 2000 (GG)
5820.0 E10 YHF2 USB 10-03-03 Mon 2130 (GG)
5820.0 E10 YHF 88 YHYZD USB 10-03-03 Mon 2200 (GG)
5820.0 E10 YHF 33 RBXUN/7918 first sent USB 12-03-03 Wed 0130
(BS4)
5820.0 E10 YHF 2 msgs: 82 PEUQS / ?? ??? USB 14-03-03 Fri 1800
5820.0 E10 YHF 21 QTKAT USB 14-03-03 Fri 2200 (GG)
5820.0 E10 YHF2 USB 19-03-03 Wed 2130 (GG)
5820.0 E10 YHF 33 RBXUN/7918 USB 21-03-03 Fri 0130 (BS4)
5820.0 E10 YHF2/7918 USB 21-03-03 Fri 0200 (BS4)
5820.0 E10 YHF2 USB 21-03-03 Fri 2000 (GG)
5820.0 E10 YHF in tfc USB 30-03-03 Sun 2200 (BS4)
5830,0 M29 76/33: 3 0800= 54767 CW 03-03-03 Mon 0700 (HFD)
5876.0 M13d 303 (R5) BT 276 54 BT CW 01-03-03 Sat 0330 (MS)
5883.0 V02a ID 90323 (in progress - misse AM 01-03-03 Sat 0500)
5930,0 M29 76/33: 3 0800= 54767 CW 03-03-03 Mon 0730 (HFD)
5945,0 M10 555:828/33-447/20 CW 25-03-03 Tue 1500 (HFD)
6261,0 M01 463 CW 15-03-03 Sat 1500 (HFD)
6270.0 E10 ULX2 USB 01-03-03 Sat 2200 (BS4)
6270.0 E10 ULX in tfc USB 01-03-03 Sat 2300 (BS4)
6270.0 E10 ULX2/4880 USB 02-03-03 Sun 2200 (BS4)
6270.0 E10 ULX 33 IMPTC/7760 USB 05-03-03 Wed 0100 (BS4)
6270.0 E10 ULX 58 NPOAP USB 08-03-03 Sat 2300 (GG)
6270.0 E10 ULX 64 ITBDP/7760 USB 12-03-03 Wed 0100 (BS4)
6270.0 E10 ULX 89 GMXIX USB 14-03-03 Fri 1830 (GG)
6270.0 E10 ULX 111 XYOTF USB 17-03-03 Mon 2300 (GG)
6270.0 E10 ULX 2 msgs : 74 RCENM / 46 OZ USB 20-03-03 Thu 2030
(GG)
6270.0 E10 ULX 64 ITBDP/7760 USB 21-03-03 Fri 0100 (BS4)
6270.0 E10 ULX 38 KCUMW, ?? ?????/4880 USB 24-03-03 Mon 2300
(BS4)

6270.0 E10 ULX2 USB 30-03-03 Sun 2200 (BS4)
6270.0 E10 ULX 10 XTVPV USB 30-03-03 Sun 2300 (BS4)
6370.0 E10 KPA2/4360 USB 11-03-03 Tue 0215 (BS4)
6370.0 E10 KPA2 out of time slot USB 11-03-03 Tue 2152 (GG)
6370.0 E10 KPA 38 VKQGD USB 13-03-03 Thu 2303 (GG)
6370.0 E10 KPA2 USB 14-03-03 Fri 0019 (GG)
6370.0 E10 KPA2 out of usual time slot USB 14-03-03 Fri 2137 (GG)
6370.0 E10 KPA2/4360 USB 19-03-03 Wed 0215 (BS4)
6498.0 E10 PCD USB 02-03-03 Sun 2230 (BS4)
6498.0 E10 PCD 17 LJXKJ USB 08-03-03 Sat 2230 (GG)
6498.0 E10 USB 10-03-03 Mon 2241 (GG)
6498.0 E10 PCD 48 LAFIG, -- ----- USB 17-03-03 Mon 0030 (BS4)
6498.0 E10 PCD2/3150 USB 18-03-03 Tue 0330 (BS4)
6498.0 E10 PCD2/3150 USB 25-03-03 Tue 0330 (BS4)
6498.0 E10 PCD USB 27-03-03 Thu 2230 (BS4)
6498.0 E10 PCD2//3150 USB 29-03-03 Sat 0330 (BS4)
6508.0 M01 463 CW 16-03-03 Sun 0700 (HFD)
6705.0 M13a 372x3 0 0 0 (R5) BT 229 20 BT CW 10-03-03 Mon 0400
6758.0 M10 55x3 491x3 33 207x3 26 (R5) (CW 03-03-03 Mon 0210
6758.0 M10 (in progress, missed callup) CW 08-03-03 Sat 0210 (MS)
6758.0 M10 555x3 343x3 18 836x3 25 (R5) CW 10-03-03 Mon 0210 (MS)
6758.0 M10 555x3 343x3 18 836x3 25 (R5) CW 12-03-03 Wed 0210 (MS)
6758.0 M10 555x3 391x3 21 289x3 17 (R5) CW 24-03-03 Mon 0210 (MS)
6758.0 M10 555x3 601x3 21 630x3 20 (R5) CW 30-03-03 Sun 0210 (MS)
6763.0 M10 (in progress) CW 01-03-03 Sat 0418 (MS)
6763.0 M10 666x3 343x3 18 836x3 25 (R5) CW 09-03-03 Sun 0410 (MS)
6763.0 M10 444x3 343x3 18 836x3 25 (R5) CW 10-03-03 Mon 0410 (MS)
6763.0 M10 555x3 343x3 18 836x3 25 (R5) CW 12-03-03 Wed 0410 (MS)
6763.0 M10 555x3 470x3 20 393x3 30 (R5) CW 16-03-03 Sun 0410 (MS)
6763.0 M10 777x3 391x3 21 289x3 17 (R5) CW 23-03-03 Sun 0410 (MS)
6763.0 M10 444x3 601x3 21 630x3 20 (R5) CW 30-03-03 Sun 0410 (MS)
6768.0 V02 AM 09-03-03 Sun 0400 (MBS)
6770.0 M29 51/33: 4 0800= 64428 CW 04-03-03 Tue 0700 (HFD)
6797.0 M08a ID 91683 58271 50761 CW 10-03-03 Mon 1200 (MS)
6817 E07 English Man AM 03-03-03 2140 (RiN)
6817.0 E07 418:1-2192/113= 31324 AM 03-03-03 Mon 2140 (HFD)
6817.0 E07 USB 19-03-03 Wed 2143 (GG)
6826.0 V02a (in progress - YL/SS) AM 03-03-03 Mon 0900 (MS)
6838.0 XP msg
6840 E10 EZI AM 17-03-03 1901 (JP)
6840 E10 EZI AM 17-03-03 2030 (JP)
6840 E10 EZI AM 17-03-03 2131 (JP)
6840 E10 EZI AM 17-03-03 2201 (JP)
6840 XP Msg AM 05-03-03 Wed 2140 (PB)
6840.0 E10 EZI2/9130, 11565 USB 05-03-03 Wed 0100 (BS4)
6840.0 E10 EZI 74 OBFBC/11565, 9130 Rpt USB 07-03-03 Fri 0230
6840.0 E10 EZI 84 JECAT USB 08-03-03 Sat 2200 (GG)
6840.0 E10 EZI 74 OBFBC/9130 USB 09-03-03 Sun 0230 (BS4)

6840.0 E10 EZI2 USB 09-03-03 Sun 2130 (GG)
6840.0 E10 EZI2/11565, 9130 USB 12-03-03 Wed 0100 (BS4)
6840.0 E10 EZI USB 12-03-03 Wed 0130 (BS4)
6840.0 E10 EZI USB 12-03-03 Wed 1800 (GG)
6840.0 E10 USB 14-03-03 Fri 1805 (GG)
6840.0 E10 EZI 118 GBJPJ USB 14-03-03 Fri 2130 (GG)
6840.0 E10 EZI 84 JECAT USB 14-03-03 Fri 2200 (GG)
6840.0 E10 EZI 84 JECAT USB 17-03-03 Mon 2200 (GG)
6840.0 E10 EZI 53 WUBHL/9130 USB 18-03-03 Tue 0230 (BS4)
6840.0 E10 EZI 73 CPGQZ USB 18-03-03 Tue 2030 (GG)
6840.0 E10 EZI2/9130, 11565 USB 21-03-03 Fri 0100 (BS4)
6840.0 E10 EZI 66 TWXV-/9130, 11565 AM 21-03-03 Fri 0130 (BS4)
6840.0 E10 EZI ?? ?????, 39 AISHT//9130 AM 28-03-03 Fri 0230
6840.0 E10 EZI 48 GQPLD//9130 USB 29-03-03 Sat 0300 (BS4)
6840.0 E10 EZI 84 JECAT rpt of msg 2000z USB 30-03-03 Sun 2200
(BS4)
6840.0 E10 EZI 80 AMGRD ?? ????? USB 30-03-03 Sun 2330 (BS4)
6842 XP Msg AM 12-03-03 2140 (JS)
6855.0 V02a Strong signal S9+20dB AM 24-03-03 Mon 0300 (GWI)
6870,0 M29 51/33: 4 0800= 64428 CW 04-03-03 Tue 0730 (HFD)
6870,0 X06 Mazielka 2150, Mon 03-03-03
6912 E10 MIW2 AM 17-03-03 2019 (JP)
6912 E10 MIW2 AM 17-03-03 2128 (JP)
6912 E10 MIW2 AM 17-03-03 2136 (JP)
6912 E10 MIW2 AM 17-03-03 2201 (JP)
6912.0 E10 MIW2/8127 USB 01-03-03 Sat 2315 (BS4)
6912.0 E10 MIW2 USB 11-03-03 Tue 0215 (BS4)
6912.0 E10 MIW2 out of time slot USB 11-03-03 Tue 2152 (GG)
6912.0 E10 KPA 38 VKQGD USB 13-03-03 Thu 2303 (GG)
6912.0 E10 MIW2 out of usual time slot USB 14-03-03 Fri 2207 (GG)
6912.0 E10 MIW2 USB 19-03-03 Wed 0215 (BS4)
6933.0 M08a ID 16803 38231 09701 CW 01-03-03 Sat 1200 (MS)
6934,0 E07 913/0 AM 05-03-03 Wed 0610 (HFD)
6945 S10d AM 03-03-03 1740 (AF)
6945,0 S10D ip AM 03-03-03 Mon 1748 (HFD)
6959.0 E03 00698 USB 14-03-03 Fri 2200 (GG)
6959.0 E03 93825 USB 21-03-03 Fri 2200 (GG)
6970,0 E05 ip AM 08-03-03 Sat 2130 (HFD)
6975,0 M13 261 CW 17-03-03 Mon 2100 (HFD)
6986.0 E10 ART 66 JGVLD/5435 USB 02-03-03 Sun 0400 (BS4)
6986.0 E10 ART2 USB 08-03-03 Sat 2100 (BS4)
6986.0 E10 ART 81 SZMNP/5435 USB 15-03-03 Sat 0430 (BS4)
6986.0 E10 ART 81 SZMNP USB 16-03-03 Sun 0430 (BS4)
6986.0 E10 ART 76 VQVIG/5435 USB 20-03-03 Thu 0400 (BS4)
6986.0 E10 ART 33 NHYJZ/5435 USB 27-03-03 Thu 0400 (BS4)
7000 MX Channel marker "F", Vladivostok CW 18-03-03 1042
7000 MX Channel marker "F", Vladivostok CW 18-03-03 1119
7039.2 MX Cluster beacon "F" CW 04-03-03 1120

7039.2 MX Cluster beacon "F", Vladivostok CW 18-03-03 1119
7039.4 MX Cluster beacon "M" CW 04-03-03 1120
7039.4 MX Cluster beacon "M", Magadan CW 18-03-03 1119 (JUM)
7320.0 M08a ID 91682 67033 60163 CW 09-03-03 Sun 1300 (MS)
7320.0 M08a ID 91683 58271 50761 (rpt of CW 10-03-03 Mon 1300 (MS)
7358.0 E10 FTJ2/4461 USB 27-03-03 Thu 0400 (BS4)
7432.0 M13 254 CW 05-03-03 Wed 2200 (HFD)
7432.0 M13 254 CW 06-03-03 Thu 2200 (HFD)
7445.0 E10 KPA/4360 USB 01-03-03 Sat 2315 (BS4)
7519.0 M08a ID 44911 93363 00123 CW 10-03-03 Mon 2200 (MS)
7540.0 E10 JSR2 USB 08-03-03 Sat 2030 (BS4)
7555.0 M08a (in progress) CW 03-03-03 Mon 0800 (MS)
7608.0 XP msg, weak signal AM 06-03-03 Thu 2120 (HFD)
7609 XP Msg AM 12-03-03 2120 (JS)
7610 XP Msg AM 05-03-03 Wed 2120 (PB)
7681.0 M08a (in progress-missed callups) CW 30-03-03 Sun 0828 (MS)
7760.0 E10 ULX 33 IMPTC USB 04-03-03 Tue 0100 (GG)
7760.0 E10 ULX 33 IMPTC/6270 AM 05-03-03 Wed 0100 (BS4)
7760.0 E10 ULX 33 IMPTC USB 07-03-03 Fri 0100 (GG)
7760.0 E10 ULX 33 IMPTC USB 09-03-03 Sun 0100 (GG)
7760.0 E10 ULX 64 ITBDP USB 10-03-03 Mon 0100 (GG)
7760.0 E10 ULX 64 ITBDP/6270 USB 12-03-03 Wed 0100 (BS4)
7760.0 E10 ULX 64 ITBDP USB 13-03-03 Thu 0100 (GG)
7760.0 E10 ULX 64 ITBDP USB 17-03-03 Mon 0130 (GG)
7760.0 E10 ULX 64 ITBDP USB 20-03-03 Thu 0100 (GG)
7760.0 E10 ULX 64 ITBDP/6270 USB 21-03-03 Fri 0100 (BS4)
7760.0 E10 ULX 64 IZBDP USB 21-03-03 Fri 0100 (GG)
7797.0 YLSS, IP 5FG (Poss. V2a?) AM 09-03-03 Sun 2216 John
K1RC Dracut, Ma.
7810 M42 Russian diplo. Msg to LKF on link 00031 RTTY 31-03-03
1756 (LD0)
7818.0 E10 YHF2 USB 31-03-03 Mon 0200 (BS4)
7890.0 M08a ID 16803 38231 09701 (rpt of CW 01-03-03 Sat 1300 (MS)
7900.0 S06f 3 message blocks USB 02-03-03 Sun 1800 (AF)
7918.0 E10 YHF2 USB 01-03-03 Sat 0200 (BS4)
7918.0 E10 YHF in tfc/5820 USB 05-03-03 Wed 0130 (BS4)
7918.0 E10 YHF2 USB 05-03-03 Wed 0200 (BS4)
7918.0 E10 YHF 20 VIOSQ USB 07-03-03 Fri 0200 (BS4)
7918.0 E10 YHF2/4560 USB 07-03-03 Fri 0230 (BS4)
7918.0 E10 YHF 20 VIOSQ USB 09-03-03 Sun 0200 (BS4)
7918.0 E10 YHF2/5820, 4560 USB 09-03-03 Sun 0230 (BS4)
7918.0 E10 YHF 33 RBXUN/5820 first sent USB 12-03-03 Wed 0130
(BS4)
7918.0 E10 YHF 2 msgs: 82 PEUQS / ?? ??? USB 14-03-03 Fri 1800
7918.0 E10 YHF2/4560 USB 18-03-03 Tue 0230 (BS4)
7918.0 E10 YHF2 AM 20-03-03 Thu 0200 (BS4)
7918.0 E10 YHF 33 RBXUN/5820 USB 21-03-03 Fri 0130 (BS4)
7918.0 E10 YHF2/5820 USB 21-03-03 Fri 0200 (BS4)

7918.0 E10 YHF2 USB 24-03-03 Mon 0200 (BS4)
7940 M87 684 684 684 684 684 000 000 CW 17-03-03 0000 (IB)
7990.0 V02a A 55983 65221 71673; new sked AM 14-03-03 Fri 0600
7994 M21 Russian Air Defense =99?17T9?9????? = 414681414684????
CW 09-03-03 1412 (HPT)
8009.0 M08a ID 44911 93363 00123 (rpt of CW 10-03-03 Mon 2300 (MS)
8010.0 V02a very week in Denver AM 18-03-03 Tue 0006 (Vambo)
8010.0 V02a Tuned in at 0600, heard a dig AM 21-03-03 Fri 0610
8067.0 M13 (in progress, probably "501" CW 09-03-03 Sun 2221 (MS)
8067.0 M13 501 (R5) BT 22. .. BT (very w CW 10-03-03 Mon 2215
8067.0 M13 501 (R5) BT (QRN and weak sig CW 24-03-03 Mon 2215
8080 E06 English Man AM 03-03-03 2100 (RIN)
8082 X06 FAPSI. Mazielka calls 20-03-03 1805 (JS)
8096.0 M08a ID 33772 08311 37371 CW 30-03-03 Sun 0700 (MS)
8122 XP Msg AM 05-03-03 Wed 2150 (PB)
8122,0 XP msg AM 07-03-03 Fri 2150 (HFD)
8127.0 E10 MIW2/6912 USB 01-03-03 Sat 2315 (BS4)
8132.0 M13 458 (R5) BT 222 21 BT CW 10-03-03 Mon 0430 (MS)
8132.0 V02 132 95 (R3) (YL/SS) AM 30-03-03 Sun 0700 (MS)
8136.0 M08a (ip progress) CW 01-03-03 Sat 1100 (MS)
8136.0 M08a In progress Strong signal her CW 26-03-03 Wed 0007
8150 E06 English Man ended 154 83 00000 AM 02-03-03 1835 (RIN)
8150,0 E06 ip AM 09-03-03 Sun 1835 (HFD)
8175,0 S10D 555:440-71/27= 65517, //9986 AM 15-03-03 Sat 1520
8183.0 M13 757 (R5) BT 247 21 BT CW 07-03-03 Fri 2245 (MS)
8185 E07 English Man AM 03-03-03 2120 (RiN)
8185,0 E07 418:1-2192/113= 31324 AM 03-03-03 Mon 2120 (HFD)
8190 S10d AM 15-03-03 1240 (JS)
8190 S17c 11036 AM 01-03-03 1250 (AF)
8190,0 S17C 11036, //5301 AM 01-03-03 Sat 1250 (HFD)
8190,0 S17C 98036, //5301 AM 02-03-03 Sun 1250 (HFD)
8190,0 S17C 11036, //5301 AM 03-03-03 Mon 1250 (HFD)
8190,0 S17C 99036, //5301 AM 07-03-03 Fri 1250 (HFD)
8190,0 S17C 90039, //5301 AM 08-03-03 Sat 1250 (HFD)
8190,0 S17C 91034, //5301 AM 09-03-03 Sun 1250 (HFD)
8190,0 S17C 84044, //5301 AM 15-03-03 Sat 1250 (HFD)
8190,0 S17C 90036, //5301 AM 16-03-03 Sun 1250 (HFD)
8190,0 S17C 99037, //5301 AM 23-03-03 Sun 1250 (HFD)
8190,0 S17C 10036, //5301 AM 29-03-03 Sat 1250 (HFD)
8300.0 V13 Star Star Broadcasting USB 09-03-03 Sun 1400 (BM)
8303 M22 4XZ Israeli navy Haifa. VVV marker CW 24-03-03 1936
8313.5 XSL Japanese Navy PSK modem USB 09-03-03 Sun 1600 (BM)
8495.2 MX Cluster beacon "F" CW 04-03-03 1120
8495.2 MX Cluster beacon "F", Vladivostok CW 18-03-03 1120
8588.0 XSL Japanese Navy PSK modem USB 09-03-03 Sun 1600 (BM)
8749.0 V02 In prog AM 02-03-03 Sun 0409 (BM)
9062.0 M08a (in progress, missed callups) CW 16-03-03 Sun 0510
9062.0 M08a ID 80471 19821 34852 (rpt of CW 30-03-03 Sun 0500 (MS)

9063.0 V02a Good levels - in progress AM 18-03-03 Tue 0007 (Vambo)
 9115.0 V02a Weird voice. Not normal compu AM 25-03-03 Tue 0006
 (Vambo)
 9130 E10 AM 17-03-03 1835 (JP)
 9130 E10 EZI AM 17-03-03 1900 (JP)
 9130 E10 EZI AM 17-03-03 2000 (JP)
 9130 E10 EZI AM 17-03-03 2030 (JP)
 9130 E10 AM 17-03-03 2135 (JP)
 9130 E10 EZI AM 17-03-03 2201 (JP)
 9130 E10 EZI AM 17-03-03 2232 (JP)
 9130.0 E10 EZI2 USB 01-03-03 Sat 0200 (BS4)
 9130.0 E10 EZI 84 JECAT/13533 USB 01-03-03 Sat 2000 (BS4)
 9130.0 E10 EZI2/13533 USB 01-03-03 Sat 2130 (BS4)
 9130.0 E10 EZI 84 JECAT/11565 Rpt of msg USB 01-03-03 Sat 2200
 (BS4)
 9130.0 E10 i/p 84 ??C?T USB 02-03-03 Sun 2004 (GG)
 9130.0 E10 71 WHGMC USB 02-03-03 Sun 2030 (GG)
 9130.0 E10 EZI2 USB 02-03-03 Sun 2130 (BS4)
 9130.0 E10 EZI 84 JECAT Repeat of msg 20 USB 02-03-03 Sun 2200
 (BS4)
 9130.0 E10 EZI 49 SBG0D/11565 USB 02-03-03 Sun 2230 (BS4)
 9130.0 E10 EZI 84 JECAT USB 03-03-03 Mon 2000 (GG)
 9130.0 E10 EZI 20 HWYJB USB 03-03-03 Mon 2030 (GG)
 9130.0 E10 EZI 11 ZILLU USB 04-03-03 Tue 2030 (GG)
 9130.0 E10 EZI2/6840, 11565 USB 05-03-03 Wed 0100 (BS4)
 9130.0 E10 EZI2 USB 05-03-03 Wed 0200 (BS4)
 9130.0 E10 EZI 84 JECAT USB 05-03-03 Wed 2000 (GG)
 9130.0 E10 EZI 15 STWDH AM 06-03-03 Thu 0300 (BS4)
 9130.0 E10 EZI 84 JECAT USB 06-03-03 Thu 2000 (GG)
 9130.0 E10 EZI 11 ZILLU USB 06-03-03 Thu 2030 (GG)
 9130.0 E10 EZI2 USB 07-03-03 Fri 0200 (BS4)
 9130.0 E10 EZI 74 OBFBC/11565, 6840 Rpt USB 07-03-03 Fri 0230
 9130.0 E10 EZI 49 SBG0D/11565 USB 07-03-03 Fri 2230 (BS4)
 9130.0 E10 EZI 74 OBFBC/6840 USB 08-03-03 Sat 0230 (BS4)
 9130.0 E10 EZI USB 08-03-03 Sat 1900 (BS4)
 9130.0 E10 EZI/11565 USB 08-03-03 Sat 2030 (BS4)
 9130.0 E10 EZI2 USB 08-03-03 Sat 2130 (BS4)
 9130.0 E10 EZI 84 JECAT/11565, Rpt of ms USB 08-03-03 Sat 2200
 9130.0 E10 heavily distorted USB 08-03-03 Sat 2230 (GG)
 9130.0 E10 EZI2/11565 USB 09-03-03 Sun 0200 (BS4)
 9130.0 E10 EZI 15 STWDH USB 09-03-03 Sun 0300 (BS4)
 9130.0 E10 EZI2/11565, 6840 USB 12-03-03 Wed 0100 (BS4)
 9130.0 E10 EZI USB 12-03-03 Wed 1800 (GG)
 9130.0 E10 EZI 110 IHLJT USB 12-03-03 Wed 2030 (GG)
 9130.0 E10 USB 14-03-03 Fri 1805 (GG)
 9130.0 E10 EZI 2 msgs : 68 CTSBE / 40 OZ USB 14-03-03 Fri 1830
 9130.0 E10 EZI 118 GBJPJ USB 14-03-03 Fri 2130 (GG)
 9130.0 E10 EZI 84 JECAT USB 14-03-03 Fri 2200 (GG)

9130.0 E10 EZI 26 IATDH USB 15-03-03 Sat 2030 (GG)
 9130.0 E10 EZI 2 msgs : 77 JBBSZ / 55 RU USB 16-03-03 Sun 1730
 9130.0 E10 EZI 84 JECAT USB 16-03-03 Sun 2200 (BS4)
 9130.0 E10 EZI USB 17-03-03 Mon 2030 (GG)
 9130.0 E10 EZI 84 JECAT USB 17-03-03 Mon 2200 (GG)
 9130.0 E10 EZI 53 WUBHL/6840 USB 18-03-03 Tue 0230 (BS4)
 9130.0 E10 EZI2/11565 AM 20-03-03 Thu 0200 (BS4)
 9130.0 E10 EZI2/6840, 11565 USB 21-03-03 Fri 0100 (BS4)
 9130.0 E10 EZI 66 TWXV-/6840, 11565 AM 21-03-03 Fri 0130 (BS4)
 9130.0 E10 EZI2 USB 21-03-03 Fri 0200 (BS4)
 9130.0 E10 EZI2/11565 AM 24-03-03 Mon 0200 (BS4)
 9130.0 E10 EZI 62 AOPPL//11565 USB 27-03-03 Thu 2230 (BS4)
 9130.0 E10 EZI ?? ?????, 39 AISHT//6840 USB 28-03-03 Fri 0230
 9130.0 E10 EZI 86 OSCYI USB 28-03-03 Fri 0300 (BS4)
 9130.0 E10 EZI 80 AMGRD, ?? ?????//11565 USB 28-03-03 Fri 2330
 (BS4)
 9130.0 E10 EZI 48 GQPLD//6840 USB 29-03-03 Sat 0300 (BS4)
 9130.0 E10 EZI 62 AOPPL USB 30-03-03 Sun 2230 (BS4)
 9139,0 XP 0-msg AM 04-03-03 Tue 2100 (HFD)
 9140 XP Msg AM 05-03-03 Wed 2100 (PB)
 9140,0 XP msg AM 06-03-03 Thu 2100 (HFD)
 9152.0 M08a (in progress) CW 01-03-03 Sat 1200 (MS)
 9153.0 in progress-faint USB 28-03-03 Fri 1320 (JEN)
 9153.0 V02a Strong signal +10 here Uneven AM 20-03-03 Thu 0007
 (Vambo)
 9202.0 E10 YHF 45 LOKRG/10648 USB 08-03-03 Sat 1930 (BS4)
 9202.0 E10 YHF 2 msgs : 91 RGKVG / 29 QO USB 14-03-03 Fri 1830
 (GG)
 9238.0 M08a ID 44932 35543 86993 CW 03-03-03 Mon 0900 (MS)
 9251.0 E03 00698 USB 14-03-03 Fri 2200 (GG)
 9323.0 M08a ID 61782 35353 23141 CW 01-03-03 Sat 1000 (MS)
 9330.0 M08a CW 24-03-03 Mon 0400 (GWI)
 9346,0 E07 283:1- 288/166= 25342, weak signal AM 09-03-03 Sun
 1840 (HFD)
 9420,0 E07 418:1-2192/113= 31324 AM 03-03-03 Mon 2100 (HFD)
 9475 XP Msg AM 05-03-03 Wed 2130 (PB)
 9475,0 XP msg hard to copy AM 07-03-03 Fri 2130 (HFD)
 9946,0 M13 517 CW 04-03-03 Tue 2100 (HFD)
 9946.0 M13 517 (R5) BT BT (QRM b1 CW 18-03-03 Tue 2100
 9986,0 S10D 555:440-71/27= 65517, //8175 AM 15-03-03 Sat 1520
 10046 M22 4XZ Israeli navy Haifa CW 05-03-03 Wed 1654 (DW)
 10125.0 E10 MIW2 In prog. USB 08-03-03 Sat 0318 (BM)
 10125.0 E11 232/00 USB 11-03-03 Tue 0800 (BM)
 10125.0 M08a In prog CW 08-03-03 Sat 0318 (BM)
 10126.0 M08a ID 19363 12842 64133 CW 10-03-03 Mon 1100 (MS)
 10130 XPH Null msg AM 05-03-03 Wed 1850 (PB)
 10143.0 M13 714 (R5) BT 222 21 BT CW 28-03-03 Fri 2100 (MS)
 10206 S06b 726 726 726 390 390 22 11111 11111 00041 00041 390 390

22 00000 AM 19-03-03 2130 (LC2)
 10235.0 M08a (in progress, missed callups) CW 16-03-03 Sun 0417
 10235.0 M08a CW 25-03-03 Tue 0400 (GWI)
 10235.0 M08a ID 80471 19821 34852 CW 30-03-03 Sun 0400 (MS)
 10235.5 M08 Interrupted by jAM ming. I h CW 10-03-03 Mon 0406
 (KC8KBK)
 10236.0 M08a ID 33772 08311 37371(rpt of 0 CW 30-03-03 Sun 0800
 10344.0 M08a ID 61782 35353 23141 (rpt of CW 01-03-03 Sat 1100
 10440.0 V02a Weak signal AM 24-03-03 Mon 0300 (GWI)
 10444.0 M08a In prog CW 13-03-03 Thu 0315 (BM)
 10460.0 S06 671-123/75 14422 AM 08-03-03 Sat 1800 (JE)
 10519.4 X06/M FAPSI. Mazielka calls + traffic CROWD36 19-03-03 1545
 42 (RH2)
 10648.0 E10 YHF2 USB 02-03-03 Sun 2230 (BS4)
 10648.0 E10 YHF 45 LOKRG/9202 USB 08-03-03 Sat 1930 (BS4)
 10648.0 E10 YHF 2 msgs: 82 PEUQS / ?? ??? USB 14-03-03 Fri 1800
 10648.0 E10 YHF 2 msgs : 91 RGKVG / 29 QO USB 14-03-03 Fri 1830
 (GG)
 10814,0 E07 281:1- 288/116= 25342, good signal AM 09-03-03 Sun
 1820 (HFD)
 10871.9 MX Cluster beacon "S" CW 04-03-03 1120
 10872.0 MX Arkhangelsk "S" CW 08-03-03 Sat 0300 (BM)
 10872.0 MX Arkhangelsk "S" CW 14-03-03 Fri 0547 (BM)
 10872.2 MX Cluster beacon "F" CW 04-03-03 1120
 10872.4 MX Cluster beacon "M" CW 04-03-03 1120
 10925.0 M13 261 (R5) BT 266 20 BT CW 16-03-03 Sun 2000 (MS)
 10925.0 M13 261 (R5) BT 266 20 BT (signal CW 16-03-03 Sun 2100
 10926.0 M13 261 (R5) BT 266 20 BT CW 02-03-03 Sun 2000 (MS)
 10926.0 M13 261 (R5) BT 266 20 BT (rpt of CW 02-03-03 Sun 2100
 10972 XP Msg AM 05-03-03 Wed 2110 (PB)
 10972,0 XP msg AM 07-03-03 Fri 2110 (HFD)
 11545.0 E03 very faint USB 08-03-03 Sat 1800 (BM)
 11545.0 E03 very faint USB 09-03-03 Sun 1600 (BM)
 11565 E10 EZI AM 17-03-03 1830 (JP)
 11565 E10 AM 17-03-03 1905 (JP)
 11565 E10 EZI2 AM 17-03-03 1930 (JP)
 11565 E10 EZI AM 17-03-03 2001 (JP)
 11565 E10 EZI2 AM 17-03-03 2100 (JP)
 11565 E10 AM 17-03-03 2135 (JP)
 11565 E10 EZI AM 17-03-03 2200 (JP)
 11565 E10 EZI AM 17-03-03 2202 (JP)
 11565.0 E10 EZI 84 JECAT/9130 Rpt of msg USB 01-03-03 Sat 2200
 11565.0 E10 EZI 49SBG0D/9130 USB 02-03-03 Sun 2230 (BS4)
 11565.0 E10 EZI2/6840, 9130 USB 05-03-03 Wed 0100 (BS4)
 11565.0 E10 EZI too weak to copy USB 05-03-03 Wed 1200 (GG)
 11565.0 E10 EZI2 USB 05-03-03 Wed 1600 (GG)
 11565.0 E10 YHF calling and in tfc - norm USB 06-03-03 Thu 0330
 11565.0 E10 EZI2 USB 06-03-03 Thu 1600 (GG)

11565.0 E10 EZI 74 OBFBC/9130, 6840 Rpt o USB 07-03-03 Fri 0230
11565.0 E10 EZI 49 SBGOD/9130 USB 07-03-03 Fri 2230 (BS4)
11565.0 E10 EZI2 USB 08-03-03 Sat 0400 (BM)
11565.0 E10 EZI with message USB 08-03-03 Sat 0430 (BM)
11565.0 E10 Interrupted prior transmissio USB 08-03-03 Sat 0445
11565.0 E10 EZI2 USB 08-03-03 Sat 0500 (BM)
11565.0 E10 EZI2 USB 08-03-03 Sat 0500 (BM)
11565.0 E10 EZI2 USB 08-03-03 Sat 1600 (GG)
11565.0 E10 EZI/9130 USB 08-03-03 Sat 2030 (BS4)
11565.0 E10 EZI 84 JECAT/9130, Rpt of msg USB 08-03-03 Sat 2200
11565.0 E10 ID EZI2 AM 09-03-03 Sun 0132 (K1RC)
11565.0 E10 EZI2/9130 USB 09-03-03 Sun 0200 (BS4)
11565.0 E10 EZI2 USB 10-03-03 Mon 1600 (GG)
11565.0 E10 EZI2 USB 11-03-03 Tue 1600 (GG)
11565.0 E10 EZI2/9130, 6840 USB 12-03-03 Wed 0100 (BS4)
11565.0 E10 EZI2 USB 12-03-03 Wed 1600 (GG)
11565.0 E10 EZI 84 JECAT USB 12-03-03 Wed 2000 (GG)
11565.0 E10 EZI 2 msgs : 68 CTSBE / 40 OZ USB 14-03-03 Fri 1830
11565.0 E10 EZI 84 JECAT USB 14-03-03 Fri 2200 (GG)
11565.0 E10 EZI2 USB 16-03-03 Sun 0400 (MS)
11565.0 E10 EZI2 USB 16-03-03 Sun 1600 (GG)
11565.0 E10 EZI2 USB 19-03-03 Wed 1600 (GG)
11565.0 E10 EZI2 USB 20-03-03 Thu 1600 (GG)
11565.0 E10 EZI2/6840, 9130 USB 21-03-03 Fri 0100 (BS4)
11565.0 E10 EZI 66 TWXV-/6840, 9130 AM 21-03-03 Fri 0130 (BS4)
11565.0 E10 EZI2/9130 AM 24-03-03 Mon 0200 (BS4)
11565.0 E10 EZI 62 AOPPL//9130 AM 27-03-03 Thu 2230 (BS4)
11565.0 E10 EZI 80 AM GRD, ?? ?????//913 AM 28-03-03 Fri 2330
11565.0 E10 EZI 84 JECAT//13533 USB 30-03-03 Sun 2000 (BS4)
11565.0 M08a very faint CW 08-03-03 Sat 0400 (BM)
11565.0 V02a very faint AM 08-03-03 Sat 0400 (BM)
11566.0 E10 EZI2/9130 AM 20-03-03 Thu 0200 (BS4)
11617 XPH Null msg AM 05-03-03 Wed 1830 (PB)
12190.0 S06 671-123/75 14422 AM 08-03-03 Sat 1700 (JE)
12217 M42 Dep. of State Comms Moscow. Msg on link 00068 RTTY
22-03-03 1030 (LD0)
12220 E07 Msg AM 09-03-03 1800 (JS)
13375.0 E03 faint; id 55565 USB 08-03-03 Sat 1800 (BM)
13484 M42 Dep. of State Comms Moscow. Msg on link 60179 MFSK32
15-03-03 1557 (LD0)
13533.0 E10 EZI 84 JECAT/9130 USB 01-03-03 Sat 2000 (BS4)
13533.0 E10 EZI2/9130 USB 01-03-03 Sat 2130 (BS4)
13533.0 E10 EZI USB 01-03-03 Sat 2330 (BS4)
13533.0 E10 EZI 68 CTSBE, -- ----- 2 msgs USB 08-03-03 Sat 1830
13533.0 E10 EZI2 USB 08-03-03 Sat 1930 (BS4)
13533.0 E10 EZI 84 JECAT USB 08-03-03 Sat 2000 (BS4)
13533.0 E10 EZI 12 MQSEL USB 08-03-03 Sat 2100 (BS4)
13533.0 E10 EZI 118 GBJPJ USB 14-03-03 Fri 2130 (GG)

13533.0 E10 EZI 84 JECAT//11565 USB 30-03-03 Sun 2000 (BS4)
13548,0 XP msg AM 07-03-03 Fri 0700 (HFD)
13940 E06 540 912 87 AM 22-03-03 1500 (MG)
13940 E06 507 912 87 41661 AM 23-03-03 1500 (MG)
14386,0 V07 304:1-8415/84= 22834 AM 04-03-03 Tue 0600 (HFD)
14387.0 V07 Spanish man; weak AM 13-03-03 Thu 0600 (BM)
14640.0 M08a ID 91682 67033 60163 (first h CW 09-03-03 Sun 1300
14640.0 M08a ID 91683 58271 50761 (rpt of CW 10-03-03 Mon 1300
14866 M42 Dep. of State Comms Moscow. Msg to DKR on link 70060
MFSK32 07-03-03 1443 (LDO)
14948,0 XP msg AM 07-03-03 Fri 0720 (HFD)
15820.0 S06 724x3 00000 AM 08-03-03 Sat 1600 (JE)
16084.0 E03 id 55565 USB 08-03-03 Sat 1800 (BM)
16084.0 E03 ID 53011 AM 22-03-03 Sat 1803 (AJ)
16087,0 V07 304:1-8415/84= 22834 AM 04-03-03 Tue 0620 (HFD)
16087.0 V07 Spanish man; 804?; weak AM 13-03-03 Thu 0620 (BM)
16119 M42 Dep. of State Comms Moscow. Msg on link 90039 MFSK32
15-03-03 1535 (LDO)
16140 E06 540 912 87 AM 22-03-03 1400 (MG)
16140 E06 507 912 87 41661 AM 23-03-03 1400 (MG)
16140.0 E06 507x3 00000 AM 08-03-03 Sat 1400 (JE)
16248,0 XP msg AM 07-03-03 Fri 0740 (HFD)
16254,0 E06 791-325/68=06168 AM 01-03-03 Sat 1330 (HFD)
16257 E06 791 791 791 325 68 06168 AM 02-03-03 1330 (RiN)
16257.0 E06 791 325 68 06168..."", S9+ in USB 02-03-03 Sun 1330
16259 E06 791 791 791 680 94 94 5FGs 680 94 94 5FGs AM 09-03-03
1326 (AJP)
16259 E06 791 238 91 42930 AM 23-03-03 1330 (MG)
16259.0 E06 good sig; 5fg x 2; ends 680 6 USB 09-03-03 Sun 1346
17463 M42 FAPSI. Msg on link 10163 RTTY 18-03-03 1542 (RH2)
17487,0 V07 304:1-8415/84= 22834 AM 04-03-03 Tue 0640 (HFD)
18235 E06 791 791 791 325 68 06168 AM 02-03-03 1230 (RiN)
18235,0 E06 791-325/68=06168 AM 01-03-03 Sat 1230 (HFD)
18236 E06 AM 22-03-03 1242 (MG)
18236 E06 791 238 91 42930 AM 23-03-03 1230 (MG)
18410 M42 Dep. of State Comms Moscow. Msg on link 40078 RTTY
15-03-03 0909 (LDO)
18518 M42 Dep. of State Comms Moscow. Msg 18-tone multitone
system 22-03-03 1030 (LDO)
18518 M42 Dep. of State Comms Moscow. Msg 13-tone multitone
system 23-03-03 1030 (LDO)
18864.0 E04 USB 04-03-03 Tue 1200 (ANCE)
18864.0 E04 id:78478 QRM with rtty statio USB 07-03-03 Fri 0013

::: Contributors to the Logs Section

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GN	Gert, Netherlands
GWI	Green, WI, USA
HFD	Hans-Friedrich Dumrese, Germany
JB	John Baxter, UK
JE	Joerg Eberhardt, Germany
JEN	Jennajon, IL, USA
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JS3	Jochen Schaefer, Germany
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